

Refine Search

Search Results -

Term	Documents
CATIONS	131673
CATION	356514
MAGNESIUM	589447
MAGNESIUMS	264
MAGNESIA	49459
MAGNESIAS	486
(72 AND (CATIONS ADJ MAGNESIUM)).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	0
(L72 AND CATIONS ADJ MAGNESIUM).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	0


Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L73

Refine Search

Recall Text 

Clear

Interrupt

Search History

DATE: Monday, October 15, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u>
side by side		result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=AND</i>		
<u>L73</u> L72 and cations adj magnesium	0	<u>L73</u>
<u>L72</u> L71 and pneumoniae	126	<u>L72</u>
<u>L71</u> L70 and oxidiz\$	581	<u>L71</u>

<u>L70</u>	L69 and cations	1090	<u>L70</u>
<u>L69</u>	L67 and polysaccharide	1090	<u>L69</u>
<u>L68</u>	L67 oxidiz\$ near cations	0	<u>L68</u>
<u>L67</u>	L66 and cations	2055	<u>L67</u>
<u>L66</u>	multivalent and conjugate	5634	<u>L66</u>
<u>L65</u>	5316926.pn.	2	<u>L65</u>
<u>L64</u>	4242501.pn.	3	<u>L64</u>
<u>L63</u>	4695624.pn.	2	<u>L63</u>
<u>L62</u>	6472506.pn.	2	<u>L62</u>
<u>L61</u>	L60 and (oxidation or oxidizing or oxidiz\$)	33	<u>L61</u>
<u>L60</u>	L59 and water adj cations	92	<u>L60</u>
<u>L59</u>	(polysaccharide or saccharide or carbohydrate)	247794	<u>L59</u>
<u>L58</u>	polysaccharide and oxidation and magnesium adj cations	23	<u>L58</u>
<u>L57</u>	L56 and (saccharide or carbohydrate)	194	<u>L57</u>
<u>L56</u>	L55 and (calcium or magnesium)	237	<u>L56</u>
<u>L55</u>	L51 and cations and periodic adj acid	296	<u>L55</u>
<u>L54</u>	L53 and magnesium adj cations	31	<u>L54</u>
<u>L53</u>	L51 and polysaccharide	13694	<u>L53</u>
<u>L52</u>	L51 and polysaccharide	0	<u>L52</u>
<u>L51</u>	L50 and (cation or cations or bivalent adj cations or divalent adj cation or valent adj cations or valent near cation or magnesium adj cations)	22190	<u>L51</u>
<u>L50</u>	L49 and (polysaccharide or saccharide or carbohydrate)	66833	<u>L50</u>
<u>L49</u>	oxidation or oxidizing or oxidiz\$	1009449	<u>L49</u>
<u>L48</u>	L47 and conjugate	29	<u>L48</u>
<u>L47</u>	L45 and (polysaccharide or saccharide or oligosaccharide)	146	<u>L47</u>
<u>L46</u>	L45 and polysaccharide	99	<u>L46</u>
<u>L45</u>	L44 and magnesium near cation	894	<u>L45</u>
<u>L44</u>	L31 and oxidation or oxidizing or oxidiz\$	620763	<u>L44</u>
<u>L43</u>	L42 and saccharide	0	<u>L43</u>
<u>L42</u>	L41 and conjugate	25	<u>L42</u>
<u>L41</u>	L36 and valent adj cations	25	<u>L41</u>
<u>L40</u>	L36 and magnesium adj cation	0	<u>L40</u>
<u>L39</u>	L36 and magnesium adj cations	0	<u>L39</u>
<u>L38</u>	L36 and cations	114	<u>L38</u>
<u>L37</u>	L36 and magnesium	85	<u>L37</u>
<u>L36</u>	L35 and serotype	114	<u>L36</u>
<u>L35</u>	L34 and carrier adj protein	1643	<u>L35</u>
<u>L34</u>	L33 and conjugate	7150	<u>L34</u>
<u>L33</u>	L32 and (saccharide or carbohydrate)	13319	<u>L33</u>
<u>L32</u>	L31 and oxidiz\$	61807	<u>L32</u>
<u>L31</u>	cation or cations or valent adj cation	424994	<u>L31</u>
<u>L30</u>	L28 and magnesium adj cation	4	<u>L30</u>

<u>L29</u>	L28 and magnesium	3729	<u>L29</u>
<u>L28</u>	L27 and saccharide	7326	<u>L28</u>
<u>L27</u>	conjugate	150812	<u>L27</u>
<u>L26</u>	L25 and oxidiz\$ and reduc\$	62	<u>L26</u>
<u>L25</u>	L17 and (cations or magnesium or cation adj Mg or Mg)	193	<u>L25</u>
<u>L24</u>	L23 and oxidiz\$ and reduc\$	42	<u>L24</u>
<u>L23</u>	L17 and (cations or magnesium)	117	<u>L23</u>
<u>L22</u>	L16 and oxidizing and reducing	67	<u>L22</u>
<u>L21</u>	L20 and periodic adj acid	3	<u>L21</u>
<u>L20</u>	L17 and acetic adj acid	81	<u>L20</u>
<u>L19</u>	L18 acetic adj acid	9	<u>L19</u>
<u>L18</u>	L17 and oxidizing adj agent	15	<u>L18</u>
<u>L17</u>	L16 and carrier adj protein	206	<u>L17</u>
<u>L16</u>	L15 and serotype	473	<u>L16</u>
<u>L15</u>	L14 and saccharide	7326	<u>L15</u>
<u>L14</u>	conjugate	150812	<u>L14</u>
<u>L13</u>	7053204.pn.	2	<u>L13</u>
<u>L12</u>	keller-n.in.	18	<u>L12</u>
<u>L11</u>	keller-nancy.in.	2	<u>L11</u>
<u>L10</u>	L9 and (trichostatin or apicidin or SAHA or M344 or n-butyrate)	31	<u>L10</u>
<u>L9</u>	L6 and inhibitor	408	<u>L9</u>
<u>L8</u>	L6 and histone	8	<u>L8</u>
<u>L7</u>	L6 and hdaA	0	<u>L7</u>
<u>L6</u>	keller.in.	18145	<u>L6</u>
<u>L5</u>	finco-o.in.	1	<u>L5</u>
<u>L4</u>	bonci-a.in.	7	<u>L4</u>
<u>L3</u>	ratti-g.in.	31	<u>L3</u>
<u>L2</u>	guido-g.in.	5	<u>L2</u>
<u>L1</u>	grandi-g.in.	76	<u>L1</u>

END OF SEARCH HISTORY

The Contents of Case 10566898

Qnum	Query	DB Name	Thesaurus	Operator	Plural
Q1	hydrazine	USPT	ASSIGNEE	AND	YES
Q2	5371197.pn.	USPT	ASSIGNEE	AND	YES
Q3	5849301	USPT	ASSIGNEE	AND	YES
Q4	5849301.pn.	USPT	ASSIGNEE	AND	YES
Q5	6645503.pn.	USPT	ASSIGNEE	AND	YES
Q6	5965714.pn.	USPT	ASSIGNEE	AND	YES
Q7	5623057.pn.	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q8	20030180316	PGPB	ASSIGNEE	AND	YES
Q9	20060228380	PGPB	ASSIGNEE	AND	YES
Q10	N2H4 or hydrazine or diamide or anhydrous	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q11	N2H4 or hydrazine or diamide or anhydrous adj hydrazine	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q12	N2H4 or hydrazine or diamide or anhydrous adj hydrazine or hydrazine adj dichloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q13	Q12 and (protein or carrier protein)	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q14	Q13 and saccharide	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q15	Q14 and conjugate	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q16	Q15 and activa\$	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q17	Q16 and oxidiz\$	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q18	Q17@ay>2003	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q19	Q17 and adipic adj acid	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q20	Q15 and adipic adj acid	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q21	Q15 and hydrazine adj dichloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q22	Q15 and protein adj hydras\$	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q23	6800728.pn.	USPT	ASSIGNEE	AND	YES
Q24	Q15 and protein adj hydras\$ adj dihydrochloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES
Q25	Q15 and dihydrochloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI	ASSIGNEE	AND	YES

Q26	Q25 and hydrazine	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q27	4695624.pn.	USPT ASSIGNEE	AND	YES
Q28	esser-mark.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q29	esser-m.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q30	Q29 and hydrazine	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q31	Q29 and dihydrochloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q32	SCHLOTTMANN-s.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q33	Q32 and hydrazine	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q34	Q32 and dihydrochloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q35	hausdorff-w.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q36	hausdorff.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q37	Q36 and dichloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q38	Q36 and dihydrochloride	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q39	hausdorff.in. and periodate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q40	Q39 and adipic adj acid	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q41	Q39 and adipic	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q42	siber.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q43	Q42 and (dihydrochloride or dichloride)	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q44	siber.in. and periodate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q45	Q44 and adipic	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q46	paradiso.in.	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q47	Q46 and adipic	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q48	periodate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q49	Q48 and adipic adj acid adj dihydrazize	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q50	Q48 and adipic adj acid adj dihydrazide	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q51	Q50 and conjugate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q52	Q51 and saccharide	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q53	Q52@py>2003	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q54	Q52 not Q53	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q55	Q54 and hydrazine	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES
Q56	Q54 and (N2H4 or hydrazine or diamide or anhydrous adj hydrazine or hydrazine adj	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES

	dichloride or dihydrochloride)				
Q57	Q52 and protein	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
Q58	Q50 and filtra\$	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
Q59	Q58 and sodium adj	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	cyanoborohydride				
Q60	Q59 and sodium adj carbonate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
Q61	Q60 and freeze	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
Q62	Q50 and sodium adj	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	cyanoborohydride				
Q63	Q62 and sodium adj carbonate	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	Q62 and add\$ adj (saccharose or				
Q64	sucrose or dextran	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	or sugar or glucose)				
	Q62 and (saccharose or				
Q65	sucrose or dextran	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	or sugar or glucose)				
Q66	Q62 and freeze adj dry	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
Q67	Q48 and sodium adj	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	cyanoborohydride				
Q68	Q67 and adipic adj acid adj	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	
	dihydrazide				
Q69	Q68 and freeze	PGPB,USPT,USOC,EPAB,JPAB,DWPI ASSIGNEE	AND	YES	

Case Operation

search.txt

divalent cations were neither stimulatory nor required for activity. The Km values for arabinose 5-P and... ..27 mol m-3 and about 35 mmol m-3, respectively. The kinetics of periodate oxidation of KDOP formed by spinach KDOP synthase indicate that the same stereochemical configuration exists as...

Identifiers-- ...RHAMNOGALACTURONAN-II; CELL WALLS; POLYSACCHARIDE; ACID; ACINETOBACTER; BIOSYNTHESIS; COMPONENT

32/3,K/25 (Item 1 from file: 50) Links

Fulltext available through: USPTO Full Text Retrieval Options

CAB Abstracts

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0009157924 CAB Accession Number: 20073007173

Establishment of SSR and RAPD technique system in *Castanea mollissima* .

Wang TongKun; Dong ChaoHua; Ma Yan; Qi YongShun; Zhang JingZheng; Bai SuHua

Author email address: wtkqhd@eyou.com

Department of Horticulture & Landscape Changli, Hebei 066004, China.

Journal of Fruit Science vol. 23 (6): p.825-829

Publication Year: 2006

ISSN: 1009-9980

Publisher: Magazines Publishing House Zhengzhou , China

Language: Chinese Summary Language: English Record Type: Abstract

Document Type: Journal article

...developed. PVP and 2-mercaptoethanol were added to lyses buffer in order to inhibit the oxidation of polyphenol. High concentration of salt solution and elution for many times were used to remove the polysaccharide. High quality DNA with molecular mass above 23 kb, D SUB 260nm /D SUB 280nm...

Descriptors: ...magnesium;

32/3,K/26 (Item 2 from file: 50) Links

Fulltext available through: USPTO Full Text Retrieval Options

CAB Abstracts

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0006833589 CAB Accession Number: 19941903184

Dispersion and aggregation of soils as influenced by organic and inorganic polymers.

Gu, B.; Doner, H. E.

Department of Soil Science, Univ. California, Berkeley, CA 94720, USA.

Soil Science Society of America Journal vol. 57 (3): p.709-716

Publication Year: 1993

ISSN: 0361-5995

Language: English Record Type: Abstract

Document Type: Journal article

The influence of three organic polyanions (a soil humic acid, a soil polysaccharide, and a commercial anionic polysaccharide) and hydroxy-Al polycations (Al-p) on soil clay dispersion, aggregation, and hydraulic conductivity were... .. of NaClO SUB 4 . The organic polyanions, especially humic acid, induced dispersion rather than flocculation. Oxidation of soil organic matter with H SUB 2 O SUB 2 and addition of Al... .. clay colloids and, in addition, acted as bridges between negatively charged colloids and the anionic polysaccharide preventing soil clay dispersion. Excessive additions of Al-p restabilized suspensions. Hydraulic conductivities of soil columns treated with Al-p or its combinations with anionic polysaccharide or humic acid were two orders of magnitude higher than those without Al-p throughout a 5-d leaching period. Although treatment of the Na-soils with the anionic polysaccharide increased soil aggregate stability as measured by the wet-sieving method, it did not result... .. organic components in addition to: pH, ionic strength, and composition. In the absence of polyvalent cations, negatively charged humic substances do not contribute to stable soil aggregation. Both polyvalent cations and polyanions may be additive in preventing soil clay dispersion.

32/3,K/27 (Item 1 from file: 73) Links

Fulltext available through: USPTO Full Text Retrieval Options

EMBASE

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13278676 EMBASE No: 2005330079

Aspergillus fumigatus: Saprophyte or pathogen?

Tekaia F.; Latge J.-P.

J.-P. Latge, Unite des *Aspergillus*, Institut Pasteur, 25, rue du Dr Roux, 75015
Paris France

Author Email: jplatge@pasteur.fr

Current Opinion in Microbiology (CURR. OPIN. MICROBIOL.) (United Kingdom) 2005
, 8/4 (385-392)

CODEN: COMIF ISSN: 1369-5274

Publisher Item Identifier: S1369527405000925

Document Type: Journal ; Review

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 51

DRUG DESCRIPTORS:

proteome--endogenous compound--ec; oxidizing agent; polysaccharide--endogenous
compound--ec; protein histidine kinase --endogenous compound--ec; cyclic
AMP--endogenous compound--ec; guanine nucleotide binding protein alpha
subunit--endogenous compound--ec; transferrin; iron; magnesium; phosphate; zinc;
antifungal agent

CAS Registry Number: ...7439-89-6 (iron); 7439-95-4 (magnesium); 14066-19-4...

32/3,K/28 (Item 2 from file: 73) Links

Fulltext available through: American Society for Microbiology custom link

USPTO Full Text Retrieval Options

EMBASE

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13226803 EMBASE No: 2005285963

Calcium-induced virulence factors associated with the extracellular matrix of mucoid
Pseudomonas aeruginosa biofilms

Sarkisova S.; Patrauchan M.A.; Berglund D.; Nivens D.E.; Franklin M.J.

M.J. Franklin, Department of Microbiology, 109 Lewis Hall, Montana State University,
Bozeman, MT 59717 United States

Journal of Bacteriology (J. BACTERIOL.) (United States) 2005 , 187/13
(4327-4337)

CODEN: JOBAA ISSN: 0021-9193

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 76

...to biofilm-associated infections. The pulmonary fluid of CF patients usually
contains elevated concentrations of cations and may contain the *P. aeruginosa*
redox-active pigment pyocyanin, which is known to disrupt calcium homeostasis of
host cells. Since divalent cations are important bridging ions for bacterial
polysaccharides and since they may play regulatory roles in...

DRUG DESCRIPTORS:

pyocyanine; divalent cation; bacterial polysaccharide--endogenous compound--ec;
alginic acid; calmodulin; phenazine; proteinase

MEDICAL DESCRIPTORS:

bacterial colonization; lung parenchyma; cystic fibrosis; oxidation reduction
reaction; lung fluid; homeostasis; bacterial gene; gene expression; confocal laser
microscopy; genetic transcription; infrared...

32/3,K/29 (Item 3 from file: 73) Links

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Fulltext available through: Proceedings of the National Academy of Sciences
(PNAS) custom link USPTO Full Text Retrieval Options

EMBASE

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12995970 EMBASE No: 2005055606

Nanoscale environments associated with bioweathering of a Mg-Fe-pyroxene

Benzerara K.; Yoon T.H.; Menguy N.; Tyliszczak T.; Brown Jr. G.E.

K. Benzerara, Surf. and Aqueous Geochemistry Group, Dept. of Geol. and Environ.
Sciences, Stanford University, Stanford, CA 94305-2115 United States

Author Email: benzerar@stanford.edu

Proceedings of the National Academy of Sciences of the United States of America (
PROC. NATL. ACAD. SCI. U. S. A.) (United States) 25 JAN 2005 , 102/4 (979-982)

CODEN: PNASA ISSN: 0027-8424

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 37

...associated with polysaccharides adjacent to the microorganism, and regions
surrounding the microorganism with different iron oxidation states. Our results
confirm the presence of different microenvironments at this microorganism-mineral
interface and...

DRUG DESCRIPTORS:

* magnesium; *iron; *silicate

aluminum; calcium carbonate; polysaccharide; calcium

MEDICAL DESCRIPTORS:

thermodynamics; scanning transmission electron microscopy; transmission electron
microscopy; oxidation; fossil; oxidation reduction reaction; pH; article; priority
journal

CAS Registry Number: 7439-95-4 (magnesium); 14093-02-8...

32/3,K/30 (Item 4 from file: 73) Links

Fulltext available through: USPTO Full Text Retrieval Options

EMBASE

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12122987 EMBASE No: 2003233914

Emerging themes in manganese transport, biochemistry and pathogenesis in bacteria

Kehres D.G.; Maguire M.E.

D.G. Kehres, Department of Pharmacology, School of Medicine, Case Western Reserve
University, 10900 Euclid Avenue, Cleveland, OH 44106-4965 United States

Author Email: dgk2@po.cwru.edu

FEMS Microbiology Reviews (FEMS MICROBIOL. REV.) (Netherlands) 2003 , 27/2-3
(263-290)

CODEN: FMREE ISSN: 0168-6445

Document Type: Journal ; Review

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 275

...ATPase superfamily. Each is highly selective for MnSUP2+ over FeSUP2+ or other
transition metal divalent cations, and each can accumulate millimolar amounts of
intracellular MnSUP2+ even when environmental MnSUP2+ is scarce...

DRUG DESCRIPTORS:

enzyme; glyceric acid; pyruvic acid; oxaloacetic acid; cation; hydrogen peroxide;
magnesium; free radical; catalase; peroxidase; reactive nitrogen species;

transcription factor; regulator protein; phosphatase; adenylate cyclase;
phosphoprotein phosphatase; protein kinase; polyamine; bacterial DNA; bacterial RNA;
phospholipid; polysaccharide; phosphoglycerate mutase; fructose bisphosphatase;
fructose; phosphotransferase; unclassified drug

MEDICAL DESCRIPTORS:

...genome analysis; chemical analysis; regulatory mechanism; gene control; genetic
transcription; gene expression; bacterial growth; phagosome; oxidation reduction

search.txt

state; detoxification; metabolism; binding affinity; protein binding; RNA structure; structure analysis; RNA stability ; RNA...
CAS Registry Number: ...328-42-7 (oxaloacetic acid); 7722-84-1 (hydrogen peroxide); 7439-95-4 (magnesium); 9001-05-2 (catalase); 9003-99-0 (peroxidase); 9013-05-2 (phosphatase); 9012-42-4...

32/3,K/31 (Item 1 from file: 103) Links

Energy SciTec

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03132678 NOV-91-007058; EDB-91-070113

Title: Novel breaker/filtration process reduces the cost of recycling viscosified brine completion fluids

Author(s): McIntyre, J.A.; Kalnins, J.M.; Varjian, R.D. (Dow Chemical Co., Midland, MI (USA)); Powell, J. (MI Drilling Fluids, AL (US))

Source: SPE (Society of Petroleum Engineers) Production Engineering (USA) v 5:4 .

Coden: SPENE ISSN: 0885-9221

Publication Date: Nov 1990 p 469-494

Language: In English

Abstract: This paper reports on the development of a process for recycling polysaccharide-viscosified brine completion fluids. The process used oxidants generated directly in the used brine by... ..sup {minus}} brines containing Na{sup +}, K{sup +}, Ca{sup +2}, and Zn{sup +2} cations. Calculations with information from pilot-scale tests on NaBr/NaCl brines indicate that the process...

Descriptors: ...OXIDIZERS;

32/3,K/32 (Item 2 from file: 103) Links

Energy SciTec

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01355636 EDB-84-053316

Title: Viscosity stability of aqueous polysaccharide solutions

Author(s): Glass, J.E.; Ahmed, M.; Soules, D.A.

Affiliation: North Dakota State University

Conference Title: SPE California regional meeting

Conference Location: Ventura, CA, USA Conference Date: 23 Mar 1983

Source: Soc. Pet. Eng. AIME, Pap. (United States) v SPE11691 . Coden: SEAPA

Publication Date: Mar 1983 p 245-256

Report Number(s): CONF-830312-

Language: English

Title: Viscosity stability of aqueous polysaccharide solutions

Abstract: The viscosity stability of carbohydrate polymers under thermal-oxidative, mechanical and acid-catalyzed hydrolysis is examined and compared with the... ..as an antagonist to polymer stability is investigated in the presence of two stabilizing additives, magnesium oxide (MgO) and tetraethylenepentamine (TEPA). The use of either of these additives in field applications...

Descriptors: ...OXIDATION;

32/3,K/33 (Item 3 from file: 103) Links

Fulltext available through: ScienceDirect

Energy SciTec

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00884394 EDB-82-059236

Title: Improved explosive composition (Patent)

Patent No.: PT 54166

Patent Assignee(s): African Expl Chem Inds Ltd.

Patent Date Filed: Priority date 16 Jul 1968, South Africa

Publication Date: 25 Feb 1971 p v

Language: Portuguese

search.txt

Abstract: ...the preparation of a slurry- detonating explosive compound which consists essentially of a granulated inorganic oxidizing salt which is partially dissolved and partially suspended in an aqueous medium. The viscous compound...a molasses composition, and has added a highly combustible fuel, a galactomanan and a synthetic polysaccharide gelling agent, both soluble in water, and a viscosity controlling agent. The synthetic polysaccharide may be carboxymethyl cellulose. The gelling agent may be guar gum. The proportions of carboxymethyl...to 8% by wt of molasses; from 0 to 15% of fuel (particulates of aluminum, magnesium, silicon, sugar or sulfur); and from 0.2 to 5% by wt of carboxymethyl cellulose...
Descriptors: ...OXIDIZERS;

32/3,K/34 (Item 4 from file: 103) Links

Energy SciTec

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00371164 EDB-78-065567

Title: Characterization of starch breakdown in the intact spinach chloroplast

Author(s): Peavey, D.G.; Steup, M.; Gibbs, M.

Affiliation: Brandeis Univ., Waltham, MA

Source: Plant Physiol. (United States) v 60:2 . Coden: PLPHA

Publication Date: Aug 1977 p 305-308

Language: English

Abstract: ...inhibitory effect of ionophore A 23187 on starch breakdown was reversed by the addition of magnesium ions. The formation of maltose but not glucose was impaired by the ionophore. The inhibition...phosphate. Fructose 1,6-bisphosphate and ribose 5-phosphate did not affect the rate of polysaccharide metabolism but increased the flow of isotope into maltose. Starch breakdown was unaffected by the...cleavage; (b) ATP required in the Embden-Meyerhof pathway is generated by substrate phosphorylation in the oxidation of glyceraldehyde 3-phosphate to glyceralate 3-phosphate; and (c) the oxidative pentose phosphate pathway...
Descriptors: ...MAGNESIUM;

32/3,K/35 (Item 1 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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24046685 PMID: 17503859

Redox reactions of ferricyanide ions in layer-by-layer deposited polysaccharide films: a significant effect of the type of polycation in the films.

Wang Baozhen; Anzai Jun-ichi

Graduate School of Pharmaceutical Sciences, Tohoku University, Aoba-ku, Sendai 980-8578, Japan.

Langmuir - the ACS journal of surfaces and colloids (United States) Jun 19 2007 , 23 (13) p7378-84 , ISSN: 0743-7463--Print Journal Code: 9882736

Publishing Model Print-Electronic

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Redox reactions of ferricyanide ions in layer-by-layer deposited polysaccharide films: a significant effect of the type of polycation in the films.

Redox reactions of ferricyanide ions, [Fe(CN)₆]³⁻, in polysaccharide thin films that were prepared by layer-by-layer (LbL) deposition on the surface of...that the redox reactions of [Fe(CN)₆]³⁻ ions proceed smoothly in the LbL polysaccharide films. It was found that [Fe(CN)₆]³⁻ ions are concentrated in the films...

; Anions--chemistry--CH; Cations--chemistry--CH; Electrochemistry; Glucuronic Acid--chemistry--CH; Hexuronic Acids--chemistry--CH; Hydrogen-Ion Concentration; Oxidation-Reduction; Polyethyleneimine --chemistry--CH;

Polyethylenes--chemistry--CH; Quaternary Ammonium Compounds--chemistry--CH
Chemical Name: Alginates; Anions; Cations; Ferricyanides; Hexuronic Acids;

search.txt

Membranes, Artificial; Polyethylenes; Quaternary Ammonium Compounds;
hexacyanoferrate III; poly-N,N-dimethyl...

32/3,K/36 (Item 2 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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15387814 PMID: 15743185

Cationic polysaccharides as antiprion agents.

Yudovin-Farber Ira; Azzam Tony; Metzger Esther; Taraboulos Albert; Domb Abraham J
Department of Medicinal Chemistry and Natural Products, School of Pharmacy, Faculty
of Medicine, The Hebrew University of Jerusalem, Jerusalem 91120, Israel.

Journal of medicinal chemistry (United States) Mar 10 2005 , 48 (5) p1414-20 ,

ISSN: 0022-2623--Print Journal Code: 9716531

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Cationic polysaccharides were synthesized by conjugation of various oligoamines to
oxidized polysaccharides by reductive amination and tested for antiprion activity.

Polycations of dextran, pullulan and arabinogalactan... ..in elimination of

PK-resistant PrP from chronically infected N2a-M cells, regardless of the
polysaccharide used. Dextran-spermine conjugates were modified with oleic acid and
with methoxypoly(ethylene glycol) (MPEG...

; Animals; Cations; Cell Line, Tumor; Dextrans--chemistry--CH; Endopeptidase

K--metabolism--ME; Galactans--chemistry--CH; Glucans --chemistry...

Chemical Name: Cations; Galactans; Glucans; Polyamines; Polysaccharides; PrPSc

Proteins; Pentosan Sulfuric Polyester; Dextrans; arabinogalactan; pullulan;

Endopeptidase K

32/3,K/37 (Item 3 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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14732442 PMID: 14738994

Studies on the nature of interaction of iron(III) with alginates.

Sreeram Kalarical Janardhanan; Yamini Shrivastava H; Nair Balachandran Unni
Chemical Laboratory, Central Leather Research Institute, Adyar, Chennai 600 020,
India.

Biochimica et biophysica acta (Netherlands) Jan 22 2004 , 1670 (2) p121-5 ,

ISSN: 0006-3002--Print Journal Code: 0217513

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

The interactions between the polysaccharide alginate and iron(III) were
investigated. The solution properties were studied through pH-metry, viscometry...

; Binding Sites; Cations; Circular Dichroism; Ferric Compounds; Hydrogen-Ion

Concentration; Macrocystis; Molecular Conformation; Oxidation-Reduction; Particle

Size; Potentiometry; Solutions --chemistry--CH; Tanning--trends--TD; Viscosity

Chemical Name: Alginates; Cations; Ferric Compounds; Solutions; Iron; ferric
chloride

32/3,K/38 (Item 4 from file: 155) Links

Fulltext available through: Nature American, Inc. (Publisher Group) USPTO

Full Text Retrieval Options

search.txt

MEDLINE(R)

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14719653 PMID: 14712304

Dextran-spermine polycation: an efficient nonviral vector for in vitro and in vivo gene transfection.

Hosseinkhani H; Azzam T; Tabata Y; Domb A J

Department of Biomaterials, Field of Tissue Engineering, Kyoto University, Kyoto, Japan.

Gene therapy (England) Jan 2004 , 11 (2) p194-203 , ISSN: 0969-7128--Print
Journal Code: 9421525

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Dextran-spermine cationic polysaccharide was prepared by means of reductive amination between oxidized dextran and the natural oligoamine spermine. The formed Schiff-base imine-based conjugate was reduced...

; 3T3 Cells; Animals; Cations; Cell Line; Gene Expression; Humans; Injections, Intramuscular; Liver--enzymology--EN; Mice; Polyethylene Glycols; beta-Galactosidase...

Chemical Name: Cations; Polyethylene Glycols; Spermine; Dextran; DNA; beta-Galactosidase

32/3,K/39 (Item 5 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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13716795 PMID: 11960493

Polysaccharide-oligoamine based conjugates for gene delivery.

Azzam Tony; Eliyahu Hagit; Shapira Libi; Linial Michal; Barenholz Yechezkel ; Domb Abraham J

Department of Medicinal Chemistry and Natural Products, School of Pharmacy, Faculty of Medicine, The Hebrew University, Jerusalem 91120, Israel.

Journal of medicinal chemistry (United States) Apr 25 2002 , 45 (9) p1817-24 , ISSN: 0022-2623--Print Journal Code: 9716531

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, Non-P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Polysaccharide-oligoamine based conjugates for gene delivery.

...natural tetramine, conjugated to dextran or arabinogalactan. These polycations were prepared by reductive amination of oxidized polysaccharides with the desired oligoamines. The Schiff base conjugates thus obtained were reduced to the...

; Cations; Cell Line; Genes, Reporter; Green Fluorescent Proteins; Human Growth Hormone--genetics--GE; Humans; Luciferases--genetics...

Chemical Name: Cations; Luminescent Proteins; Polyamines; Polysaccharides; Human Growth Hormone; Green Fluorescent Proteins; Luciferases

32/3,K/40 (Item 1 from file: 393) Links

Beilstein Database - Abstracts

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Beilstein Abstract Id: 6072827

Title: Synthesis of a trisaccharide fragment corresponding to the lipopolysaccharide region of Vibrio parahaemolyticus

Document Type: Journal Record Type: Abstract

Author: Straten, N. C. R. van; Kriek, N. M. A. J.; Timmers, C. M.; Wigchert, S. C.

search.txt

M.; Marel, G. A. van der; Boom, J. H. van

Citation: J.Carbohydr.Chem. (1997) Series: 16-6, 947-966 CODEN: JCACDM Language: English

Abstract Language: English

Title: Synthesis of a trisaccharide fragment corresponding to the lipopolysaccharide region of *Vibrio parahaemolyticus*

Abstract: ... glycerol- α -D-manno-heptopyranoside (22), obtained after hydroxymethylation of aldehyde 17 with (phenyldimethylsilyl)methyl magnesium chloride, followed by protective group manipulations, gave α -linked dimer 23. Oxidative removal of the ... group manipulations (-) 26), and condensation with ethyl 1-thio- β -D-glucopyranosyl donor 27 furnished trisaccharide 28. Oxidation of the C-6 in 29 and hydrogenolysis yielded target trisaccharide 2, a fragment of the innercore lipopolysaccharide region of *Vibrio parahaemolyticus*, serotype O2.

32/3,K/41 (Item 2 from file: 393) Links

Beilstein Database - Abstracts

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Beilstein Abstract Id: 5507755

Title: THE EFFECT OF MODIFIED PECTIN, PECTIN FRAGMENTS AND CATIONS ON PHYTOPHTHORA PALMIVORA ZOOSPORES

Document Type: Journal Record Type: Abstract

Author: Zhang, Qisen; Griffith, Julia M.; Moore, John G.; Iser, Joanne R.; Grant, Bruce R.

Citation: Phytochemistry (1990) Series: 29-3, 695-700 CODEN: PYTCAS Language: English

Abstract Language: English

Title: THE EFFECT OF MODIFIED PECTIN, PECTIN FRAGMENTS AND CATIONS ON PHYTOPHTHORA PALMIVORA ZOOSPORES

Abstract: ... were compared as inducers of differentiation in zoospores of the plant pathogen *Phytophthora palmivora*. Periodate oxidation or reduction of pectin completely destroyed all capacity of the polymer to induce cell differentiation. Methylation destroyed the capacity of the pectin to induce germination, but the methylated polysaccharide induced zoospore rounding and at least partial encystment at low concentrations. Some oligomers prepared from...

32/3,K/42 (Item 1 from file: 399) Links

Fulltext available through: ScienceDirect

CA SEARCH(R)

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142379453

CA: 142(20)379453n

PATENT

Polysaccharide phyllosilicate absorbent or superabsorbent nanocomposite materials

Inventor (Author): Berrada, Mohammed; Chevigny, Stephane; Thibodeau, Claude

Location: Can.,

Assignee: Le Groupe Lysac Inc.

Patent: PCT International ; WO 200530279 A1 Date: 20050407

Application: WO 2004CA1760 (20040929) *CA 2443059 (20030929)

Pages: 92 pp.

CODEN: PIXXD2

Language: English

Patent Classifications:

Class: A61L-015/28A; A61L-015/22B; A61L-015/60B; B01J-020/22B

Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW
Designated Regional: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;

GN; GQ; GW; ML; MR; NE; SN; TD; TG

32/3,K/43 (Item 2 from file: 399) Links

Fulltext available through: ScienceDirect

CA SEARCH(R)

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131303223

CA: 131(22)303223q

PATENT

Small particles having walls made of cross-linked proteins and polysaccharides and bearing surficial hydroxam groups for chelating metal ions, methods for their production and applications in cosmetics, pharmaceuticals, and foodstuffs
Inventor (Author): Perrier, Eric; Buffevant, Chantal; Bonnet, Isabelle; Levy, Marie-Christine

Location: Fr.

Assignee: Coletica

Patent: Germany Offen. ; DE 19916896 A1 Date: 19991021

Application: DE 19916896 (19990414) *FR 984611 (19980414)

Pages: 28 pp.

CODEN: GWXXBX

Language: German

Patent Classifications:

Class: B01J-013/02A; A61K-009/50B; A61K-049/00B; A61K-051/12B; A23P-001/04B; C02F-001/58B; A61K-007/50B; C09K-015/04B

32/3,K/44 (Item 3 from file: 399) Links

Fulltext available through: USPTO Full Text Retrieval Options

CA SEARCH(R)

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94084402

CA: 94(11)84402j

JOURNAL

Effect of the structure of polysaccharide on their oxidation by cerium(IV), manganese(III), and vanadium(V) ions

Author: Il'in, A. A.; Gal'braikh, L. S.; Morin, B. P.

Location: Mosk. Tekst. Inst., Moscow, USSR

Journal: Cellul. Chem. Technol.

Date: 1980

Volume: 14 Number: 3 Pages: 327-38

CODEN: CECTAH

ISSN: 0576-9787

Language: Russian

32/3,K/45 (Item 1 from file: 434) Links

SciSearch(R) Cited Ref Sci

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05745196 Genuine Article#: SN054 No. References: 18

PI-ELECTRON SPIN-DENSITY DISTRIBUTIONS AND G-VALUES IN SEMIQUINONE CATIONS

Author: FELIX CC; PRABHANANDA BS

Corporate Source: MED COLL WISCONSIN, DEPT RADIOL, NATL BIOMED ESR

CTR/MILWAUKEE//WI/53226; TATA INST FUNDAMENTAL RES, CHEM PHYS GRP/BOMBAY

400005//INDIA/

Journal: JOURNAL OF CHEMICAL PHYSICS, 1984, V 80, N7, P 3078-3081

Language: ENGLISH Document Type: ARTICLE

PI-ELECTRON SPIN-DENSITY DISTRIBUTIONS AND G-VALUES IN SEMIQUINONE CATIONS

Research Fronts: 84-0212 001 (ELECTRON-SPIN-RESONANCE STUDIES OF POLYSACCHARIDE OXIDATION, SEMIQUINONE REDUCTION AND OTHER REACTIONS)

32/3,K/46 (Item 1 from file: 35) Links

Dissertation Abs Online

search.txt

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01867200 ORDER NO: AADAA-I3040281

Bioflocculation: Implications for activated sludge properties and wastewater treatment

Author: Murthy, Sudhir Narasimha

Degree: Ph.D.

Year: 1998

Corporate Source/Institution: Virginia Polytechnic Institute and State University (0247)

Source: Volume 6301B of Dissertations Abstracts International.

PAGE 456 . 152 PAGES

ISBN: 0-493-53486-5

...all processes related to the above properties. In these studies, it was shown that divalent cations such as calcium and magnesium improved activated sludge properties, whereas monovalent cations such as sodium, potassium and ammonium ions were detrimental to these properties. The divalent cations promoted bioflocculation through charge bridging mechanisms with negatively charged biopolymers (mainly protein and polysaccharide). It was found that oxidized iron plays a major role in bioflocculation and determination of activated sludge properties through surface interactions between iron and biopolymers. Oxidized iron was effective in removing colloidal biopolymers from solution in coagulation and conditioning studies. The... experiments evaluating effects of potassium and ammonium ions on settling and dewatering properties; effects of magnesium on settling properties; effects of sodium, potassium, calcium and magnesium on effluent quality; effect of solids retention time on effluent quality; and evaluation of floc properties during aerobic and thermophilic digestion. A floc model is proposed in which calcium, magnesium and iron are important to bioflocculation and the functionality of aeration tanks, settling tanks, dewatering...

32/3,K/47 (Item 1 from file: 135) Links

NewsRx Weekly Reports

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0000574566 (USE FORMAT 7 OR 9 FOR FULLTEXT)

New chemiluminescence study findings have been reported by M. Pletenikova and colleagues

Life Science Weekly, July 31, 2007, p.3893

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English

RECORD TYPE: FULLTEXT

Word Count:

239

...TEXT: bonds in cellulose and 1,6-alpha bonds in dextran is preceded by free radical oxidation of carbon 6 of glucopyranose unit with formation of carboxyl groups and water contributing to the subsequent induced degradation of polysaccharide," wrote M. Pletenikova and colleagues. The researchers concluded: "MgO which remains in polysaccharide after its impregnation by methoxy magnesium methyl carbonate (MMMC) promotes the reaction of terminal semiacetal groups and/or hydroperoxides which has considerably higher quantum yield of light emission." Pletenikova and colleagues published their study in Carbohydrate Polymers (New chemiluminescence study findings have

search.txt
been reported by M. Pletenikova and colleagues.
. Carbohydrate Polymers , 2007;69(1):50-64). For more
information, contact J. Rychly, Slovak Academy Science...

...Excellence Degradat Biopolymers, Dubravska Cesta 9, Bratislava 84236,
Slovakia. Publisher contact information for the journal Carbohydrate
Polymers is: Elsevier Science Ltd., the Boulevard, Langford Lane,
Kidlington, Oxford OX5 1GB, Oxon, England. Keywords: Slovakia, Bratislava,
Cellulose, Chemiluminescence, Degradation, Dextran, Pullulan, Thermal
Oxidation. This article was prepared by Life Science Weekly editors
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32/3,K/48 (Item 2 from file: 135) Links
NewsRx Weekly Reports
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0000431827 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Kyoto University, Japan, researchers release new medical data

Biotech Business Week, February 5, 2007, p.2178

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
RECORD TYPE: FULLTEXT

Word Count:
1152

... respectively. Ammonium chloride-induced intracellular acidification
significantly stimulated the hMATE2-K-dependent transport of organic
cations such as TEA, MPP, procainamide, metformin,
N1-methylnicotinamide, creatinine, guanidine, quinidine, quinine, thiamine,
and verapamil....
...engineered scaffolds and nonviral gene carrier.
"As a carrier of plasmid DNA, dextran-spermine cationic
polysaccharide was prepared by means of reductive-amination between
oxidized dextran and the natural oligoamine, spermine," scientists
writing in the journal report.
According to the...

32/3,K/49 (Item 1 from file: 357) Links
Fulltext available through: USPTO Full Text Retrieval Options
Derwent Biotech Res.
(c) 2007 The Thomson Corp. All rights reserved.
0419677 DBA Accession No.: 2007-05615
Expression and characterization of alpha-(1,4)-glucan branching enzyme Rv1326c of
Mycobacterium tuberculosis H37Rv bacterium recombinant enzyme purification and
characterization via plasmid expression in host cell for glycogen biosynthesis

Author: GARG SK; ALAM MS; KISHAN KVR; AGRAWAL P
Corporate Affiliate: Inst Microbial Technol
Corporate Source: Agrawal P, Inst Microbial Technol, Sector 39A, Chandigarh 160036,
India
Journal: PROTEIN EXPRESSION AND PURIFICATION (51, 2, 198-208) 2007
Page 90

ISSN: 1046-5928

Language: English

Abstract: ...by the cleavage of an alpha-(1,4)-glucosidic linkage and subsequent transfer of cleaved oligosaccharide to form a new alpha-(1,6)-branch. A single glgB gene Rv1326c is present... ..the substrate. Enzyme activity was optimal at pH 7.0, 30 degrees C and divalent cations such as Zn²⁺ and Cu²⁺ inhibited activity. CD spectroscopy, proteolytic cleavage and mass spectroscopy analyses... ..dependent conformational states. These conformations have different surface hydrophobicities as evidenced by ANS-fluorescence of oxidized and reduced GlgB. Although the conformational change did not affect the branching enzyme activity, the...
Descriptors: ...coli host cell, metal affinity, ionexchange chromatography, appl. glycogen biosynth. EC-2.4.1.18 polysaccharide bacterium DNA sequence (26, 11)

32/3,K/50 (Item 2 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0359290 DBA Accession No.: 2005-04994 PATENT

Producing bacterial cellulose applied as wound dressing for burns and surgical wounds, by culturing Acetobacter xylinum in medium for producing surface cellulose membrane, isolating membrane from culture liquid and purifying membrane Bacillus subtilis and Saccharomyces cerevisiae immobilization for use in vulnerary therapy

Author: BIELECKI S; KRZYSTYNOWICZ A; CZAJA W

Patent Assignee: POLITECHNIKA LODZKA 2005

Patent Number: WO 200503366 Patent Date: 20050113 WPI Accession No.: 2005-091825 (200510)

Priority Application Number: PL 203L-361067 Application Date: 20030703

National Application Number: WO 2004PL51 Application Date: 20040702

Language: English

Abstract: ...burns and surgical wounds; and (4) modifying (M4) cellulose membranes, comprising: (a) carrying out selective oxidation of bacterial cellulose using oxidative agents; (b) saturating the membrane with a solution of (in... ..glucose (10-30), yeast extract (2.5-12.5), peptone (2.5-12.5), hydrated magnesium sulfate (MgSO₄·7H₂O) (1.25-6.25), sodium biphosphate (Na₂HPO₄) (1.25-7), citric acid (0... ..the constituents by mass (in wt.parts) glucose (20), yeast extract (5), peptone (5), hydrated magnesium sulfate (MgSO₄·7H₂O), sodium biphosphate (Na₂HPO₄), citric acid (1.15), ethanol (10) to distilled water ...

Descriptors: Acetobacter xylinum cellulose prep., purification, Bacillus subtilis, Saccharomyces cerevisiae immobilization, appl. vulnerary bacterium fermentation polysaccharide fungus yeast (24, 08)

32/3,K/51 (Item 3 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0312168 DBA Accession No.: 2003-13308 PATENT

Novel glucan produced by glucosyltransferase activity of lactic acid bacterium on sucrose substrate, and having backbone consisting of alpha (1,3)- and alpha (1,6)-linked anhydroglucose units, useful as thickener glucan production using bacterium enzyme useful for probiotic, prebiotic and foodstuff

Author: VAN GEEL-SCHUTTEN G H

Patent Assignee: NEDERLANDSE ORG TOEGEPAST 2003

Patent Number: WO 200308618 Patent Date: 20030130 WPI Accession No.: 2003-289780 (200328)

Priority Application Number: EP 2001202841 Application Date: 20010725

National Application Number: WO 2002NL495 Application Date: 20020722

Language: English

Abstract: ...LMG P-20350; and (8) a chemically modified glucan, which is obtained by 2,3-oxidation, 6-oxidation, phosphorylation, acylation, alkylation,

search.txt

hydroxyalkylation, carboxymethylation, amino-alkylation of one or more AGU of (I). BIOTECHNOLOGY... ..trihydrate (5), sodium citrate dihydrate (2.42), ammonium chloride (1.32), dipotassium hydrogen phosphate (2), magnesium sulfate heptahydrate (0.2), manganese sulfate heptahydrate (0.05), sorbitan mono-oleate (1), vitamins (in... ..and 15-30 % of 1-linked (terminal) glucose units. The average molecular weight of the polysaccharide was established to be 2×10^5 Da. By polymerase chain reaction (PCR...
Descriptors: ...transfer expression in host cell, appl. thickener, prebiotic, bioactive agent, anticorrosion agent, probiotic, food ind. polysaccharide lactic acid bacterium DNA sequence protein sequence (22, 22)

32/3,K/52 (Item 4 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0287130 DBA Accession No.: 2002-08977 PATENT

Protein with glucosyltransferase activity derived from *Lactobacillus Reuteri* vector-mediated recombinant enzyme gene transfer and expression in plant cell, algorithm, polymerase chain reaction and DNA primer for use in glucan preparation

Author: VAN GEEL SCHUTTEN G H; DIJKHUIZEN L; RAHAOUI H; LEER R J

Patent Assignee: NEDERLANDSE ORG TOEGEPAST 2001

Patent Number: WO 200190372 Patent Date: 20011129 WPI Accession No.: 2002-147583 (200219)

Priority Application Number: EP 2000201871 Application Date: 20000525

National Application Number: WO 2001NL393 Application Date: 20010523

Language: English

Abstract: ...5) producing (I) comprising culturing a host cell (v); (6) a process of producing an oligosaccharide or polysaccharide of interest using (I) or (v); (7) a chemically modified glucan (G) obtained by 2,3- oxidation, 6-oxidation, phosphorylation, acylation, hydroxyalkylation, carboxymethylation, aminoalkylation of 1 or more anhydroglucose units of a glucan comprising... ..centrifuged and resuspended in protoplast buffer (5 mg/ml) pH 6.1 supplemented with lactose, magnesium chloride, polyethylene glycol 2000, 0.1 M ethylenediaminetetraacetic acid (EDTA), lysozyme, and mutanolysine 10U/ml...

Descriptors: ...polymerase chain reaction, DNA primer, appl. glucanprep. lactic acid bacterium bacterium fermentation enzyme DNA amplification polysaccharide protein sequence (21, 31)

32/3,K/53 (Item 5 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0146524 DBA Accession No.: 93-04576

Biomass production from carbon dioxide by a marine hydrogen- oxidizing bacterium

Hydrogenovibrio marinus

- carbon dioxide-fixation and single cell protein and polysaccharide production in high cell density fermentation (conference paper)

Author: Igarashi Y; Nishihara H; Kodama T

Corporate Source: Department of Agricultural Chemistry, The University of Tokyo, Bunkyo-ku, Tokyo 113, Japan.

Journal: Biochem.Eng.2001 (719-22) 1992

CODEN: 9999X

Language: English

Biomass production from carbon dioxide by a marine hydrogen- oxidizing bacterium

Hydrogenovibrio marinus - carbon dioxide-fixation and single cell protein and polysaccharide production in high cell density fermentation (conference paper)

Abstract: Biomass production from CO₂ by a marine hydrogen-oxidizing bacterium, *Hydrogenovibrio marinus* gen. nov. sp. nov. MH-110, was studied. High cell density culture... ..and exponential growth continued to an OD of 10. Growth was regained

search.txt

by addition of magnesium ions, and continued until the dissolved oxygen value decreased to almost zero, when cell density... ..increased and reached 33 g/l dry wt. after 53 hr. Significant amounts of glucose polysaccharide were produced by oxygen-limited cultures. The total sugar content reached 10 g/l after 53 hr culture, and 6.0 g polysaccharide (mol.wt. 5,000,000, with a glycogen-like structure) was recovered from 1.6 l culture broth. MH-110 should be useful for SCP and polysaccharide production from CO₂. (5 ref)
Descriptors: glycogen-like polysaccharide prep., carbon dioxide-fixation, Hydrogenovibrio marinus high cell density fermentation, pot. SCP prep. marine hydrogen-oxidizing bacterium

32/3,K/54 (Item 6 from file: 357) Links
Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0113977 DBA Accession No.: 91-01619 PATENT

Hyalurate salt with low degree of polymerization

- hyaluronic acid preparation using Streptococcus or Pasteurella sp. culture

Patent Assignee: Kibun; Kibun-Food-Chem. 1990

Patent Number: JP 2245193 Patent Date: 900928 WPI Accession No.: 90-339243 (9045)

Priority Application Number: JP 8966340 Application Date: 890320

National Application Number: JP 8966340 Application Date: 890320

Language: Japanese

Abstract: ...producing Streptococcus or Pasteurella strain, purification of hyaluronic acid, and treatment with a chlorine-type oxidizing agent. The oxidizing agent may be sodium hyposulfite or potassium hypochlorite, and is added at 50-800 ppm... ..medium (containing 2.5% glucose, 1.5% peptone, 0.5% yeast extract and 0.05% magnesium sulfate, pH 6.9-7.1) at 35 deg with aeration at 1.5 vvm... ..of the product (1.98 g) was 510,000, compared to 2,530,000 without oxidation treatment. (4pp)

Descriptors: hyalurate salt synth. with low degree of polymerization, hyaluronic acid prep., purification, treatment with oxidizing agent, e.g. sodium hyposulfite, potassium hypochlorite, Streptococcus, Pasteurella sp. culture polysaccharide C-acid C-amide bacterium

32/3,K/55 (Item 1 from file: 391) Links

Beilstein Database - Reactions

(c) 2007 Beilstein GmbH. All rights reserved.

Reaction Id: 5782540

Reactants

BN=774890 2-hydroxy-benzoic acid

No. of Reaction Details: 121

No. of References: 165

Reaction Details

...16)

Classification: Chemical behaviour (half reaction)

Reagent: Na(1+)

Conditions: complex formation, other cations (Ref. 17)

Classification: Chemical behaviour (half reaction)

Reagent: I₂ (aq)

Temp: 25 C... ..Solvent: methanol

Temp: 25 C

Conditions: Thermodynamic functions for dissociation and for complexing alkali-metal cations.

Subject Studied: Thermodynamic data (Ref. 20)

Classification: Chemical behaviour (half reaction)

Reagent: human... ..ClO₂

Solvent: H₂O

Temp: 23 C

search.txt

ph: 1.5 - 6
Subject Studied: Kinetics
Reaction Type: Oxidation (Ref. 40)
Classification: Chemical behaviour (half reaction)
Subject Studied: Kinetics (Ref. 41... ..half reaction)
Reagent: TiO₂
ph: 4.50
Conditions: Photolysis
Subject Studied: Quantum yield
Reaction Type: Oxidation (Ref. 53)
Classification: Chemical behaviour (half reaction)
Subject Studied: Equilibrium constant (Ref. 51... ..)

References

...2000)431 - 440;
20, 5723980 Pointud, Yvon ; Juillard, Jean Interactions between Metal Cations and the Ionophore Lasalocid. Part 2. - Gibbs Functions, Enthalpies and Entropies for Complexation of Alkali-metal Cations by Lasalocid and Bromolasalocid JCFTAR ; J.Chem.Soc.Faraday Trans.1 ; 84-4(1988)959... ..Singh, Vijay P. ; Pandey, Indra M. ; Sharma, Subhas B. Kinetics of Chromium Acid Oxidation of Some Hydroxy Acids JICSAH ; J.Indian Chem.Soc. ; 62 (1985)64-66... ..1967)2142-2144
165, 5836396 Foye, William O. ; Kulapaditharom, Vilai Inhibition of Mucopolysaccharide Sulfation Using Rabbit Liver Sulfotransferases JPMSAE ; J.Pharm.Sci. ; 74-3(1985)355-358;

32/3,K/56 (Item 1 from file: 8) Links

Fulltext available through: USPTO Full Text Retrieval Options

Ei Compendex(R)

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03366847 E.I. Monthly No: EI7405029068

Title: CARBOHYDRATE STABILIZATION WITH IODIDE IN OXYGEN BLEACHING OF KRAFT PULPS.

Author: Minor, James L.; Sanyer, N.

Corporate Source: US Dep of Agric, Forest Serv, Madison, wis

Source: Tappi v 57 n 2 Feb 1974 p 109-112

Publication Year: 1974

CODEN: TAPPAP ISSN: 0039-8241

Language: ENGLISH

Title: CARBOHYDRATE STABILIZATION WITH IODIDE IN OXYGEN BLEACHING OF KRAFT PULPS.

Abstract: ...the alkaline bleaching liquors. The effect was particularly distinct under weakly alkaline conditions in which magnesium compounds alone offer little stabilization. The simultaneous addition of both stabilizers gave complementary and additive results. Improved strength properties reflected the increased polysaccharide stabilization. 8 refs.

Descriptors: ...Oxidation; IODINE COMPOUNDS

32/3,K/57 (Item 1 from file: 149) Links

TGG Health&wellness DB(SM)

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02945550 Supplier Number: 107835435 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Inflammatory bowel disease part I: ulcerative colitis--pathophysiology and conventional and alternative treatment options.

Head, Kathleen A.; Jurenka, Julie S.

Alternative Medicine Review , 8 , 3 , 247(37)

August ,

2003

Publication Format: Magazine/Journal

ISSN: 1089-5159

Language: English

Record Type: Fulltext Target Audience: Academic; Professional

Word Count: 19225 Line Count: 01826

...of oxidative stress, a deranged colonic milieu, abnormal glycosaminoglycan (GAG) content of the mucosa, decreased oxidation of short chain fatty acids (SCFAs), increased intestinal permeability, increased sulfide production, and decreased methylation...

...biopsies of UC patients were analyzed and shown to have increased reactive oxygen intermediates, DNA oxidation products (8-OHdG), and iron in inflamed tissue compared to controls. Decreased levels of copper...

...II detoxification, and lipid synthesis for cell membrane integrity in the colonocytes depend on butyrate oxidation. (47) Impaired metabolism of SCFAs has been implicated as a factor in UC.
Hond et...

...C(O₂) in the breath. Patients with active UC had significantly lower butyrate oxidation than patients in remission (who had normal butyrate oxidation) or controls. Three patients with inactive disease had decreased butyrate oxidation and interestingly, all three relapsed within a few weeks. (48) Perhaps decreased oxidation of SCFAs is a good predictor of possible relapse and occurs before other signs of inflammation. Because normal oxidation was observed in patients in remission, faulty SCFA oxidation is likely to be a result rather than a primary cause of ulcerative colitis.

Other researchers compared the rate of butyrate, glucose, and glutamine oxidation to carbon dioxide in colonoscopy biopsy specimens from 15 patients with quiescent or mild colitis to specimens from 28 controls with normal colonic mucosa. Butyrate, but not glucose or glutamine, oxidation was significantly impaired in the UC patients compared to controls, even though the disease was...

...in patients with UC. Hydrogen sulfide can potentially damage the gut mucosa by inhibiting butyrate oxidation in the mitochondria, essentially starving the colonocyte (Figure 3). In experiments on human colonocytes isolated from colectomy patients, hydrogen sulfide and other sulfur compounds inhibited butyrate oxidation by 75 percent in the distal colon and 43 percent in the ascending colon. The authors of the study conclude that the "metabolic effects of sodium hydrogen sulfide on butyrate oxidation along the length of the colon closely mirror metabolic abnormalities observed in active ulcerative colitis..."

...sulfides on colonocytes. Isolated colonocytes from rat and human specimens were tested by measuring the oxidation of butyrate in the presence of hydrogen sulfide, followed by introduction of methyl donors to ...

...permeability and contributing to colonic bleeding. Based on previous animal studies demonstrating ibuprofen inhibited SCFA oxidation in isolated mitochondria of mouse liver, (60) Roediger and Millard studied ibuprofen's effect on...

...and found that, at concentrations of 2.0-7.5 mmol/L, ibuprofen selectively inhibited oxidation of butyrate. (61) This concentration may not occur at doses typically consumed.
Other NSAIDs have...

...of 104 patients with UC and CD found, using a dietary recall questionnaire, that total carbohydrate, refined sugar, and starch intakes immediately prior to onset of the disease were significantly higher ...

...have higher fecal levels of sulfide than controls, (71) although 5-ASA appears to inhibit oxidation of butyrate, potentially interfering

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with normal SCFA metabolism. (72) The implications for long-term use...in a clinical study of 69 patients with IBD (46 with UC), that beta-carotene, magnesium, selenium, iron, copper, and zinc were significantly lower in newly diagnosed patients than in controls...

...antioxidants to counter pro-oxidant effects of mucosal iron, and chelate free iron if necessary.

Magnesium

Magnesium deficiency is prevalent in UC patients, but whether it is a result of disease via...

...from decreased intake remains unclear. In a dietary history study of 54 UC patients, high magnesium intake was shown to reduce the risk of inflammatory bowel disease, suggesting an association between...

...development of UC. (65) Another study demonstrated that in 46 newly diagnosed UC patients, serum magnesium concentrations were significantly lower than in controls, suggesting a possible etiological role for magnesium deficiency. (97) Despite sometimes-normal serum magnesium levels, intracellular magnesium concentrations are frequently low in UC patients. (109)

Selenium

Like magnesium, serum and plasma selenium levels are significantly ($p < 0.05$) lower in newly diagnosed UC...

...138) and possibly improve the mucosal barrier of the colon. (139)

Larch arabinogalactan is a polysaccharide powder derived from the wood of the larch tree (*Larix* species) and comprised of approximately ...mcg-1 mg daily

Calcium 500-1,000 mg daily **

Iron 30-60 mg daily ***

Magnesium 300-500 mg daily

Selenium 200-400 mcg daily

Zinc 15-45 mg daily

Copper...Gastroenterology 1998; 115:584-590.

(49.) Chapman MA, Grahn MF, Boyle MA, et al. Butyrate oxidation is impaired in the colonic mucosa of sufferers of quiescent ulcerative colitis. Gut 1994;35...

...B, Berson A, et al. Stereoselective and nonstereoselective effects of ibuprofen enantiomers on mitochondrial beta-oxidation of fatty acids. J Pharmacol Exp Ther 1990;255:529-535.

(61.) Roediger WE, Millard S. Selective inhibition of fatty acid oxidation in colonocytes by ibuprofen: a cause of colitis? Gut 1995;36:55-59.

(62.) Ravi...

...to predict the risk of relapse? Digestion 1989;44:217-221.

(128.) Grimes DS. Refined carbohydrate, smooth-muscle spasm and disease of the colon. Lancet 1976;1:395-397.

(129.) Salyers...

32/3,K/58 (Item 2 from file: 149) Links

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02936772 Supplier Number: 97394711 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The four-step holistic treatment protocol for prostate cancer.

Alonso, Larisa; Waling, Ronald G.
Original Internist , 9 , 4 , 14(11)

Dec ,
2002

Publication Format: Magazine/Journal
ISSN: 1529-4722
Language: English
Record Type: Fulltext Target Audience: Academic; Professional
Word Count: 7843 Line Count: 00656

...digested and assimilated. Juices should be consumed immediately after preparation, as nutrients will begin to oxidize. Buy and use organically grown produce to avoid pesticides and other chemical residues contaminating the...

...12): Phase I is carried out by the cytochrome P450 enzyme system and consists of oxidation and reduction reactions. Various nutrients are required in order for the Phase I detoxification system...

...act as potent antioxidants. Other nutrient cofactors required for cytochrome P450 reactions include riboflavin, niacin, magnesium, iron, and certain phytonutrients, such as indoles from cruciferous vegetables and quercetin, have been shown...radicals and singlet oxygen, which, while not itself a free radical, it is a powerful oxidizing agent. (40,41,42) At least two mechanisms are involved in the anticarcinogenic effects of...

...promoting substances in the body.
Shiitake Concentrate is made from a mushroom that contains a polysaccharide known as lentinan. Lentinan has been found to possess immune enhancing and antitumor activity. Shuitake...

32/3,K/59 (Item 3 from file: 149) Links
TGG Health&Wellness DB(SM)
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02924098 Supplier Number: 81760722 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Review of harmful gastrointestinal effects of carrageenan in animal experiments.
(Research Review).

Tobacman, Joanne K.
Environmental Health Perspectives , 109 , 10 , 983(12)
Oct ,
2001

Publication Format: Magazine/Journal
ISSN: 0091-6765
Language: English
Record Type: Fulltext Target Audience: Academic
Word Count: 11651 Line Count: 01586

Text:

...words: carcinogenesis, carrageenan, carrageenase, diet, furcelleran (furcellaran), hydrolysis, inflammatory bowel disease, nutrition, poligeenan, promoter, sulfated polysaccharide. Environ Health Perspect 109:983-994 (2001). (Online 24 September 2001)
<http://ehpnet1.niehs.gov...>

...Federal Regulations. The stipulations for its use include the following:
a) it is a sulfated polysaccharide, the dominant hexose units of which are galactose and anhydrogalactose; b) range of sulfate content...

...has been implicated in the development of ulcerative colitis, perhaps

attributable to interference with butyrate oxidation by colonic epithelial cells (114,115). Butyrate has been shown to induce intestinal cellular differentiation...disruption of lysosomes by accumulation of carrageenan by-products or by interference with normal cellular oxidation-reduction processes from sulfate metabolites--emerges from review of the experimental studies. The impact of...

...dextran sulfate sodium, have induced ulcerations and neoplasia, suggesting that the degree of sulfation and polysaccharide molecular weight may be critical for induction of the observed effects (102).
The major pieces...

...of the total weight.

Strong negative charge over normal pH range.
Associated with ammonium, calcium,

magnesium,

potassium, or sodium salts.

solubility

(lambda) is readily soluble in cold or hot aqueous solution...Lee K-H, Wong H-A. The

molecular weight and viscosity of the water-soluble polysaccharide (s) from Eucheuma spinosum. Carbohydr Res 81:1-6 (1980).

(29.) Weiner ML. Toxicological properties...

...Ohbayashi F, Hirono I, Shimada T, Williams GM. Absence of genotoxicity of the carcinogenic sulfated polysaccharide carrageenan and dextran sulfate in mammalian DNA repair and bacterial mutagenicity assays. Nutr Cancer 6...

...2000).

(116.) Babidge W, Millard S, Roediger W. Sulfides impair short chain fatty acid beta-oxidation at acyl-CoA dehydrogenase level in colonocytes: implications for ulcerative colitis. Mol Cell Biochem 181...

...Burns WW, Paper DH. Selective inhibition of cell proliferation and DNA synthesis by the polysulphated carbohydrate ??-carrageenan. Cancer Chemother Pharmacol 36:325-334 (1995).

(129.) Coombe DR, Parish CR, Ramshaw IA...

32/3,K/60 (Item 4 from file: 149) Links

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02891190

Supplier Number: 148319659 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The molecular basis of lactose intolerance.

Campbell, Anthony K.; Waud, Jonathan P.; Matthews, Stephanie B.

Science Progress , 88 , 3 , 157(46)

Fall ,

2005

Publication Format: Magazine/Journal

ISSN: 0036-8504

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 14489 Line Count: 01267

...the normal metabolism of a specific substance. Most commonly, such biochemical intolerances are to a carbohydrate, amino acid or other small organic molecule (8,9). Lactose intolerance is caused by an...
...ileum. The pH of the large intestine is 5.5-7.

Cellulose is the major polysaccharide in all plant cell walls, made of long chains of 1-4 (beta) linked glucoses...consisting mainly of butane 2, 3 diol and acetoin. The production of acetoin, and its

oxidation product diacetyl, is the basis of the Voges-Proskauer test widely used in bacteriology. Other...Example

Gases	Carbon dioxide, hydrogen, methane, hydrogen sulphide, oxygen, nitrogen, ammonia
Ions	Calcium, sodium, potassium, magnesium, manganese, iron
Metabolites	Alcohols, diols, aldehydes, short chain fatty acids, dimethyl hydrazine, amino acid degradation...

32/3,K/61 (Item 5 from file: 149) Links
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 (c) 2007 The Gale Group. All rights reserved.
 02645469 Supplier Number: 122660850 (USE FORMAT 7 OR 9 FOR FULL TEXT)
 Two-step synthesis of carbohydrates by selective aldol reactions.(Reports)

Northrup, Alan B.; MacMillan, David W.C.
 Science , 305 , 5691 , 1752(4)
 Sept 17 ,
 2004

Publication Format: Magazine/Journal
 ISSN: 0036-8075
 Language: English
 Record Type: Fulltext; Abstract Target Audience: Academic
 Word Count: 2040 Line Count: 00174

...applied to the synthesis of carbohydrates on a few occasions; however, the need for iterative oxidation-state adjustments has thus far precluded a broadly used or step-efficient protocol. From a conceptual standpoint, a two-step carbohydrate synthesis can be envisioned based on an iterative aldol sequence using simple (alpha)-oxyaldehydes. While...

...might generate a hexose-oxocarbenium intermediate 6 that would rapidly undergo cyclization to form the carbohydrate ring system (Fig. 1B). This tandem aldol addition and cyclization presents two selectivity issues: (i...

...in the carbon-carbon bond--forming step, which ultimately defines the extent to which one carbohydrate isomer is generated in preference to another (e.g., allose versus altrose versus glucose versus...

...and 7 to Ti(Cl.sub.4) leads to the selective formation of the allose carbohydrate isomer in >19:1 selectivity, 97% yield, and 95% ee. In this latter case, we...

...in a cyclic (closed) transition state with the Felkin diastereoface of the aldehyde, whereas the magnesium reactions involve addition of the enolsilane to the opposite (non-Felkin) aldehyde face. We note...

...selective). Such hexose systems have established utility as either (alpha)- or (beta)-coupling partners in polysaccharide synthesis (1, 2). The modular nature of the Aldol Step 1 also allows for broad diversification of substituents at the carbohydrate C(4) and C(6) positions (10, 16). For example, the incorporation of TIPS-protecting...

...thereby affording carbohydrates that are differentially protected at each hydroxyl site. As such, these versatile saccharide monomers can be rapidly manipulated to expose the C(2), C(3), C(4), or C(6) hydroxyl

groups, an important consideration for di- or polysaccharide couplings.

The reaction sequence also allows rapid access to a wide variety of unnatural carbohydrates...

...71% yield and >19:1 mannose selectivity. Carbogenic substituents can also be introduced at the saccharide C(4) position in the case where (alkyl)-alkyl and (alpha)-oxy aldehydes were cross...

...will enable medicinal chemists to rapidly study structure activity relationships (SAR) on mono-, di-, and polysaccharide templates.

Our strategy for the synthesis of differentially protected hexoses thus provides rapid enantioselective access to key building blocks in saccharide and polysaccharide synthesis. Furthermore, our approach efficiently yields isotopic and functional variants of the hexoses that have...

32/3,K/62 (Item 6 from file: 149) Links
TGG Health&Wellness DB(SM)
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01186739 Supplier Number: 07616215 (USE FORMAT 7 OR 9 FOR FULL TEXT)
You can lower your cholesterol!

Gordon, G.F.; Underwood, D.L.
Total Health , v11 , n3 , p33(3)
June ,
1989
Publication Format: Magazine/Journal
ISSN: 0274-6743
Language: English
Record Type: Fulltext Target Audience: Consumer
Word Count: 2297 Line Count: 00199

...artery walls. The LDL cholesterol is in a dangerous state, i.e., it has become oxidized or "rancid" and cannot be used productively, but instead can clog our arteries.

The National...

...reverse hardening of the arteries as well as lower cholesterol. We also use a unique polysaccharide, derived from seaweed sources, in a special nutritional product.

We have learned to put our...

...cigarettes; cutting down excess alcohol consumption; avoiding excess weight; and getting proper dietary supplements, including magnesium, vitamin C, the correct oils, lots of fiber, etc.

In fact, recent evidence shows that...acids, which come from the liver, which is recycling and helping to break down the oxidized cholesterol. This process is similar to the disposal of our red blood cells after 120...

32/3,K/63 (Item 7 from file: 149) Links
TGG Health&Wellness DB(SM)
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01120938 Supplier Number: 05272820 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Biomaterial-centered infection: microbial adhesion versus tissue integration.

Gristina, Anthony G.
Science , v237 , p1588(8)
Sept 25 ,

1987

Publication Format: Magazine/Journal

ISSN: 0036-8075

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 6027 Line Count: 00660

...and biological factors then allows bacterial attachment and adhesion. Proteinaceous adhesins (fimbriae in Gramnegative bacteria), polysaccharide polymers, and surface and milieu substances interact and intermix to form an aggregate of bacteria...be regarded as a poor prognostic sign for revision surgery (27).

Extracellular Polymers

The extracellular polysaccharide substance of slime-producing bacteria is a loose amorphous material composed of a range of...

...stages of surface adhesion, aggregation, and polymicrobial interaction (2, 5, 29).

Currently, only the monomeric carbohydrate moieties and several amino acids in the exopolysaccharide slime of *Staphylococcus epidermidis* have been described...

...of mannose (7). These and other constituents of the slime vary between and within species. Polysaccharide composition and therefore aggregation or dispersion of bacteria may vary with nutritional and antagonist qualities...

...processes that in part depend on specific protein adhesin-receptor interactions, as well as on carbohydrate polymer synthesis (15, 22, 29, 37).

The delineation of complex natural processes into discrete categories ...

...and by ionic and glycoproteinaceous constituents from the host environment. The atomic structure, electronic state, oxidation layer, contamination level, and glycoprotein-coating sequence or dynamics in a human host have not...as hemodynamic or mechanical shear forces (hemodynamic, ocular, or total joint systems). Changes in extracellular polysaccharide polymer production and composition may play an important role in detachment or disaggregation (31, 44...to 14% (63).

Endothelial cells are surrounded by a well-developed glycocalyx. When this outer polysaccharide margin is traumatized by viruses, toxins, or inflammation, receptor sites and fibronectin may be exposed...

...or amorphous bulk state (10, 38, 51, 53). Properties such as surface segregation and surface oxidation can be understood by considering the thermodynamic driving forces and kinetic limitations of the system...or as contaminants, may explain the acceleration of bacterial metabolic processes that result in growth, polysaccharide production, and colony and biofilm formation on specific substrata after they are contaminated by bacteria...

...phase changes in some bacteria and possibly in eukaryocytes (6, 50, 52, 53). For metals, cations (Fe^3 , Mg^2 , Cu^2 , Mn^2 , Zn^2 , K , and Ni^2) released or accumulated at the surface and...

32/3,K/64 (Item 8 from file: 149) Links

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01057468 Supplier Number: 02665462 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Gordon Research Conferences. (includes schedules) (calendar)

Science , v219 , p1095(35)

March 4 ,
1983

Document Type: calendar Publication Format: Magazine/Journal

ISSN: 0036-8075

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 26464 Line Count: 03173

...immunoglobulins.'

28 June. (P. A. Sandford, discussion leader): D. A. Brant, "Realistic molecular modeling of polysaccharide solution conformation"; G. O. Aspinal, "Selective fragmentations of polysaccharides." (D. H. Ball, discussion leader): K...

...transport of lysosomal enzymes.'

1 July. (L. Anderson, discussion leader): Y. Ishido, "Novel aspects in carbohydrate chemistry: Regioselective protection and glycosylation reactions"; P. Sinay, "The chemical synthesis of heparin oligosaccharide fragments...Graham, "Oxygen diffusion studies in growing films using the 18O isotope and sims.'

26 July. Oxidation of alloys: G. Yurek, "Oxidation of rapidly solidified alloys"; M. Bennet, "Effects of ion implantation on oxidation of alloys." Growth of alumina scales: D. J. Field, "Mechanisms of oxidation of aluminum and aluminum alloys"; R. A. Ramanarayanan, "Al₂O₃-scales on Fe-base ODS alloys...mediated

6 July. C. Thorpe, "Flavoproteins in

6 July. C. Thorpe, "Flavoproteins in fatty acid oxidation: Recent developments"; J. Knowles, "Problems in the Shikimate pathway"; S. Benkovic. (C. Walsh, session chairperson...A. Porter, discussion leader): E. G. Janzen, "Applications of spin trapping in micelles"; T. Mill, "Oxidation chemistry of vitamin E and other phenols in bilayers and solution." J. M. McBride, "Single...

...in free radical and carbene chemistry'; J. J. Kurland, "A kinetic-mechanistic model of butane oxidation.'

Fuel Science

New Hampton School

Leon M. Stock, chairperson; Randall E. Winans, vice chairperson.

4...function in the N-linked oligosaccharides'; I. A. Wilson, "The structure and role of the carbohydrate moieties of influenza virus hemagglutinin"; Hans Vliegthart, "High resolution proton NMR studies on the oligosidic carbohydrate chains of glycoproteins." Metabolic control of dolichol pyrophosphate oligosaccharide synthesis and factors controlling distribution of...H. Bock, "Optimization of (heterogeneously catalyzed) gas reactions using photoelectron spectroscopy"; C. A. Tolman, "Hydrocarbon oxidation by transition metal complexes"; T. J. Collins, "Perspectives in the development of selective oxidizing agents"; A. Sen, "Role of transition metal alkyls and acyls in the catalytic carbonylation of...L. Liebert, "Ferro-nematics--stable suspensions of magnetic grains in a nematic phase"; G. A. Jeffrey, "Carbohydrate liquid crystals." R. Oldenbourg, "Light scattering studies of the liquid crystalline phase in virus solutions...biosynthesis." Function of membrane lipids and proteins in cellular development: Ronald Schnaar, "Immobilized glycolipids support carbohydrate-specific cell adhesion"; William Lennarz, "Glycoprotein synthesis and embryonic development"; Lucy Shapiro, "Role of membrane...A. Paul Schaap, discussion leader): Donald R. Arnold, "Radical ions in photochemistry"; Anthony Ledwith, "Radical cations in photochemically induced polymerization and cyclodimerization." (Jack Saltiel, discussion leader): Marye Anne Fox, "Mechanistic aspects...

...Ulf Dolling, "A diflunisal process via palladium catalyzed aryl

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coupling'; B. Bogdanovic, "Catalytic activation of magnesium and lithium, applications in organic synthesis and hydrogen storage"; Edward M. Kosower, "Synthesis and properties...Yoon, "Nematic order of semiflexible polymers." Natural polymers (F. E. Bailey, session chairperson): R. Marchessault, "Carbohydrate polymers: Nature's high performance materials."

8 July. Polymer degradation (H. J. Langer, session chairperson...

...and function I (John Rupley, session chairperson): John Moulton, "Water around proteins"; Don Wiley, "Bound carbohydrate"; Gerard de Hass, "Lipid interactions." The protein surface and function II (Joseph Kraut, session chairperson...applications of RO technology (J. K. Beasley, discussion leader): E. Klein, "Membranes for protein and carbohydrate separations: Theory and problems"; E. F. Casassa, "Statistics of confined polymer chains"; P. Blais, "From...

>>>W: KWIC option is not available in file(s): 399
32/3,K/65 (Item 9 from file: 149) Links
TGG Health&Wellness DB(SM)
(c) 2007 The Gale Group. All rights reserved.
01056988 Supplier Number: 02916821 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Current status of asymmetric synthesis.

Morrison, James D.; Mosher, Harry S.
Science , v221 , p1013(7)
Sept 9 ,
1983
Publication Format: Magazine/Journal
ISSN: 0036-8075
Language: English
Record Type: Fulltext Target Audience: Academic
Word Count: 4538 Line Count: 00466

...reasons. Mixed configurations are formed at the adjacent secondary carbinol center of the product; however, oxidation in the next step to 24 destroys the chirality at this center. Because the chelation of magnesium is much greater to oxygen than to sulfur, as shown in 25, the R group...

...be reversed, either enantiomer may be synthesized at will. The hydroxy aldehyde can either be oxidized to the corresponding chiral acid or reduced to the corresponding chiral glycol. Since there is...was passed over a selected strain of Escherichia coli cells that were immobilized in a polysaccharide gel (56). The potential use of immobilized enzymes and immobilized

Formula:
whole cells for production...

32/3,K/66 (Item 1 from file: 444) Links
Fulltext available through: ScienceDirect
New England Journal of Med.
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00106480
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Recent Developments In The Understanding Of The Pathogenesis And Treatment Of Anaerobic Infections (first of Two Parts) (Medical Progress)

Styrt, Barbara; Gorbach, Sherwood L.

The New England Journal of Medicine
 Jul 27 , 1989 ; 321 (4),pp 240-246
 Line Count: 00371 word Count: 05126

Text:

...host cells as the first step in invasion (Ref. 25,26). The formation of a polysaccharide capsule may be a virulence factor in bacteroides (Ref. 27-32) and gram-positive anaerobes...with aerobes and anaerobes may help perpetuate the combination (Ref. 78). The lowering of the oxidation-reduction potential of the microenvironment by facultative organisms creates more favorable conditions for the growth...

Cited References

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 44. Hawley CE, Falkler WA Jr. The effect of divalent cation chelators and magnesium on activation of the alternative complement pathway by Fusobacterium polymorphum (nucleatum). J Periodont Res 1979...

32/3,K/67 (Item 1 from file: 2) Links

Fulltext available through: USPTO Full Text Retrieval Options

INSPEC

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10510914

Title: Voltammetric characterization on the hydrophobic interaction in polysaccharide hydrogels

Author Yimei Yin; Hongbin Zhang; Nishinari, K.

Author Affiliation: Dept. of Polymer Sci. & Eng., Shanghai Jiao Tong Univ., China

Journal: Journal of Physical Chemistry B vol.111, no.7 p. 1590-6

Publisher: ACS ,

Publication Date: 22 Feb. 2007 Country of Publication: USA

CODEN: JPCBFK ISSN: 1089-5647

SICI: 1089-5647(20070222)111:7L.1590:VCHI;1-O

Material Identity Number: G111-2007-011

Item Identifier (DOI): 10.1021/jp0660334

Language: English

Subfile: A E

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Title: Voltammetric characterization on the hydrophobic interaction in polysaccharide hydrogels

Abstract: Cyclic voltammetric (CV) investigations on the properties of microdomains in polysaccharide hydrogels, methyl cellulose (MC) and k-carrageenan (CAR), coated on glassy carbon electrodes were reported...blue (MB), tris(1,10-phenanthroline)cobalt(III) (Co(phen)/sub 3//sup 3+/2+/) cations, and ferricyanide/ferrocyanide (Fe(CN)/sub 6//sup 3-/4-/) anions were used as electroactive probes. Information on the patterns and strength of intermolecular interactions in these polysaccharide hydrogels can be inferred from the net shift of normal for reduced and potentials (E...p/), the ratio of binding constants (K/sub red//K/sub ox/) for reduced and oxidized forms of bound species, and the apparent diffusion coefficients (D/sub app/) of probe in...method is of significant benefit to the understanding of the gelation driving forces in the polysaccharide hydrogels at a molecular level.

Descriptors: ...oxidation;

Identifiers: ...polysaccharide hydrogels...tris(1,10-phenanthroline)cobalt cations;

32/3,K/68 (Item 2 from file: 2) Links
Fulltext available through: ScienceDirect

INSPEC

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0000249793 INSPEC Abstract Number: 1935A00545

Title: General discussion on colloidal electrolytes

Journal: Transactions of the Faraday Society 31 p. 1-422

Publication Date: Jan. 1935 Country of Publication: UK

Language: English

Subfile: A

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Abstract: ...a) by hydrolysis of SiCl SUB 4 followed by dialysis and electrodialysis, and (b) by oxidation of SiH SUB 4 by ozone. These sols have only the electrical conductivity of pure... ..distribution corresponding to the Donnan membrane equilibrium for sodium and calcium chlorides but not for magnesium sulphate. E. B. R. Prideaux (pp . 349-354). - Diffusion potentials and mobilities of ionised gelatin... ..owes its electric charge mainly to phosphoric acid which is present as ester of the polysaccharide. The size of the starch ion, from osmosis, is about 200,000. A. Lottermoser (pp...

32/3,K/69 (Item 1 from file: 302) Links

INDEX CHEMICUS

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0000074040

Synthesis of a trisaccharide fragment corresponding to the lipopolysaccharide region of vibrio-parahaemolyticus.

Author(s): VANSTRATEN NCR; KRIEK NMAJ; TIMMERS CM; WIGCHERT SCM; VANDERMAREL GA; VANBOOM JH (VANBOOM JH - reprint author)

Corporate Source: LEIDEN UNIV, LEIDEN INST CHEM, GORLAEUS LABS, POB 9502, NL-2300 RA LEIDEN, NETHERLANDS NL-2300 RA BC; LEIDEN UNIV, LEIDEN INST CHEM, GORLAEUS LABS, NL-2300 RA LEIDEN, NETHERLANDS NL-2300 RA BC;

Journal Name: JOURNAL OF CARBOHYDRATE CHEMISTRY 16 (6): 947-966

ISSN: 0732-8303 Item Count: 0011

Publisher: MARCEL DEKKER INC, 270 MADISON AVE, NEW YORK, NY 10016

Language: ENGLISH

No. of Compounds: 30

Synthesis of a trisaccharide fragment corresponding to the lipopolysaccharide region of vibrio-parahaemolyticus.

...Abstract: glycerol-alpha-D-manno-heptopyranoside (22), obtained after hydroxymethylation of aldehyde 17 with (phenyldimethylsilyl)methyl magnesium chloride, followed by protective group manipulations, gave alpha-linked dimer 23. Oxidative removal of the...

...group manipulations (--> 26), and condensation with ethyl 1-thio-beta-D-glucopyranosyl donor 27 furnished trisaccharide 28.

Oxidation of the C-6 in 29 and hydrogenolysis yielded target

trisaccharide 2, a fragment of the inner-core

lipopolysaccharide region of Vibrio parahaemolyticus, serotype O2.

Descriptors:

Keywords Plus: INNER-CORE REGION; D-MANNO-HEPTOSE;

NEISSERIA-MENINGITIDIS; PHENYLDIMETHYLSILYL GROUP; GLUCURONIC-ACID;

LD-HEPP; DERIVATIVES; OXIDATION; DISACCHARIDE

32/3,K/70 (Item 1 from file: 354) Links

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Fulltext available through: USPTO Full Text Retrieval Options
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742753 EnCompassLit Document No.: 200415564

Chemical basis for a selectivity threshold to the oxygen delignification of kraft
softwood fiber as supported by the use of chemical selectivity agents

Author: Fu S.; Chai X.; Hou Q.; Lucia L.A.

Corporate Source: Inst. of Paper Sci. and Technology, Georgia Institute of
Technology

Source: Industrial and Engineering Chemistry Research 43/10 2291-2295 (ISSN
0888--5885) (20040512)

Language: English

ISSN: 0888--5885

CODEN: IECRE

Journal Name: Industrial and Engineering Chemistry Research

Document Type: JOURNAL ARTICLE

Publication Date: 040512

Abstract:

...that for low K number pulps, due to the greater proportion of lignin units to
oxidize. ...the carboxyl group content in pulp was a satisfactory parameter to
demonstrate the degree of oxidation incurred by the pulp

Assigned Terms: ...ELEMENT; ETHER; FIBER; KETONE; LIGNIN; MAGNESIUM SULFATE;
MONOHYDROXY; MULTIOLEFINIC; OXIDATION REACTION; OXYGEN; PHENOL; SATURATED CHAIN;
SELECTIVITY...

Index Terms: ...BASIC; BENZENE RING; C6; C7; CARBOHYDRATE; CELLULOSE; DECOMPOSITION;
ELEMENT; ETHER; FIBER...GROUP IIA; GROUP VIA; KETONE; LIGNIN; MAGNESIUM;
MAGNESIUM SULFATE; MONOHYDROXY; MULTIOLEFINIC; NATURAL RESIN; OXIDATION REACTION;
OXYGEN; PHENOL; PHYSICAL PROPERTY; POLYSACCHARIDE; SATURATED CHAIN; SELECTIVITY;
SINGLE STRUCTURE TYPE; SLURRY

32/3,K/71 (Item 2 from file: 354) Links

Fulltext available through: USPTO Full Text Retrieval Options
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678369 EnCompassLit Document No.: 200117449

Toward the characterization of microporosity of carbonaceous films

Author: Terzyk A.P.; Gauden P.A.; Zawadzki J.; Rychlicki G.; Wisniewski M.;
Kowalczyk P.

Corporate Source: Department of Chemistry, Physicochem. Carbon Mat. Res. Grp., N.
Copernicus University; Department of Respiratory Protection, Military Inst. of
Chem./Radiometry

Source: Journal of Colloid and Interface Science 243/1 183-192 (ISSN 0021--9797)
(20011101)

Language: English

ISSN: 0021--9797

CODEN: JCISA

Journal Name: Journal of Colloid and Interface Science

Document Type: JOURNAL ARTICLE

Publication Date: 011101

Abstract:

The porosity of microporous carbon films obtained from cellulose and were chemically
modified (oxidation and loading with metal cations , nine samples altogether) was
studied...

Assigned Terms: ...EQUATION; FILM; METAL; MICROPORE; NITROGEN; OXIDATION REACTION;
PROBABILITY; SPECIFIC SURFACE

Index Terms: ...BENZENE; BENZENE RING; C6; CALORIMETRY; CARBOHYDRATE; *CARBON;
CATION; CELLULOSE; *CHARACTERIZATION; CHART...MATHEMATICS; METAL; MICROPORE;
MICROSTRUCTURE; NITROGEN; OXIDATION REACTION; PHYSICAL PROPERTY; POLYSACCHARIDE;
PORE SIZE; PROBABILITY; SINGLE STRUCTURE TYPE; SORPTION...

search.txt

? d s

Set	Items	Description
S1	210	S E16-E17
S2	9	S S1 AND TRACHOMATIS
S3	7	RD (unique items)
S4	69635	S TRACHOMATIS
S5	42349	S (ELEMENTARY(W)BODIES AND RETICULATE(W)BODIES) OR (EBS OR RBS)
S6	57190	S SEROVAR OR SEROVAR
S7	332	S S4 AND S5 AND S6
S8	5	S (ADMINIST? OR INTRA) AND S7
S9	4	RD (unique items)
S10	5	S S4 AND S6 AND S8
S11	4	RD (unique items)
S12	4477	S S4 AND S6
S13	5	S S12 AND S8
S14	1053533	S POLYSACCHARIDE OR SACCHARIDE OR CARBOHYDRATE
S15	2930093	S OXIDATION OR OXIDIZING OR OXIDIZ?
S16	40899	S S14 AND S15
S17	1085866	S CATION OR CATIONS OR BIVALENT(W)CATIONS OR DIVALENT(W)CATION OR VALENT(W)CATIONS OR VALENT NEAR CATION OR MAGNESIUM(W)CATIONS OR CATION(W)MG
S18	474	S S17 AND S16
S19	19	S S18 AND CONJUGATE
S20	12	RD (unique items)
S21	272	S S16 AND MAGNESIUM
S22	208	RD (unique items)
S23	17	S S21 AND CATIONS
S24	16	RD (unique items)
S25	466	S S16 AND (CALICIUM OR MAGNESIUM OR CATIONS OR BIVALENT(W)CATIONS)
S26	0	S S25 AND OXID\$
S27	466	S S25 AND (OXIDIZE OR OXIDATION OR OXIDIZ?)
S28	110	S S27 AND POLYSACCHARIDE
S29	14	S S27 AND PNEUMONIAE
S30	10	RD (unique items)
S31	110	S S28
S32	71	RD (unique items)

? s s18 and agent

	474	S18
	4111524	AGENT
S33	48	S S18 AND AGENT

? rd

>>>W: Duplicate detection is not supported for File 393.
Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
S34 39 RD (UNIQUE ITEMS)

? t s34/3,k/1-39

>>>W: KWIC option is not available in file(s): 399
34/3,k/1 (Item 1 from file: 5) Links
Fulltext available through: USPTO Full Text Retrieval Options
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06309995 Biosis No.: 198172043946
PEROXIDASE ANTI MICROBIAL SYSTEM OF HUMAN SALIVA REQUIREMENTS FOR ACCUMULATION OF
HYPO THIO CYANITE

Author: THOMAS E L (Reprint); BATES K P; JEFFERSON M M
Author Address: DEP OF BIOCHEM, ST JUDE CHILDREN'S RES HOSP, 332 NORTH LAUDERDALE,
MEMPHIS, TENNESSEE 38101, USA**USA
Journal: Journal of Dental Research 60 (4): p 785-796 1981
Page 107

ISSN: 0022-0345
Document Type: Article
Record Type: Abstract
Language: ENGLISH

Abstract: ...saliva was fractionated to determine the components required for production and accumulation of the antimicrobial oxidizing agent, hypothiocyanite ion (OSCN⁻). The required components were: peroxidase activity and thiocyanate ion (SCN⁻), the saliva sediment, which produced hydrogen peroxide (H₂O₂) in the presence of O₂ and a divalent cation and heat-stable factors of the saliva supernatant. The supernatant factors were separated into high- and low-MW fractions. The high-MW fraction contained peptide and carbohydrate and its activity was partially inhibited by proteolytic treatment. The low MW fraction contained carbohydrate and could be replaced by a number of mono- and disaccharides. Glucosamine and N-acetyl...
...greater in the presence of glucosamine. Peroxidase-mediated antimicrobial activity is apparently modulated by the carbohydrate composition of whole saliva and by certain protein and glycoprotein components.
Descriptors: HYDROGEN PER OXIDE OXYGEN PEPTIDE CARBOHYDRATE

34/3,K/2 (Item 1 from file: 34) Links

Fulltext available through: USPTO Full Text Retrieval Options
SciSearch(R) Cited Ref Sci
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02159011 Genuine Article#: KF557 No. References: 34
ON THE NATURE OF A NEW ENERGY-STORING COMPOUND FORMED IN BACTERIA IN RESPONSE TO OXIDATIVE STRESS

Author: SHCHIPANOVA IN; KHARATYAN EF; SIBELDINA LA; OGREL OD; OSTROVSKII DN
Corporate Source: AN BAKH INST BIOCHEM, INST CHEM PHYS/MOSCOW//RUSSIA/
Journal: BIOCHEMISTRY-USSR, 1992, V 57, N6 (JUN), P 586-594
ISSN: 0006-2979
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: ...8 ppm. The compound, which is readily extractable with 50% ethanol, was not adsorbed to cation-exchanging resins. It was purified by three adsorption-elution cycles on Donwex 1x4 anion exchanger... cytoplasm of the bacteria (up to 3-30 mM) is either a diglycosylpyrophosphate or a carbohydrate cyclopyrophosphate. We suggest that the compound may be a normal alternative metabolite in the main... phosphate. The accumulation of the compound may result from an increase in the concentration of oxidized NADP, which controls the majority of reduction processes within the cells. It is tempting to...

34/3,K/3 (Item 2 from file: 34) Links

Fulltext available through: ScienceDirect
SciSearch(R) Cited Ref Sci
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00718920 Genuine Article#: EP910 No. References: 1165
ORGANIC-SYNTHESIS - WHERE NOW

Author: SEEBACH D
Corporate Source: SWISS FED INST TECHNOL, ORGAN CHEM LAB, UNIV STR 16/CH-8092 ZURICH//SWITZERLAND/
Journal: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION IN ENGLISH, 1990, V 29, N11, P 1320-1367
Language: ENGLISH Document Type: REVIEW (Abstract Available)
Research Fronts: ...007 (ORGANOCOPPER REAGENTS; HIGHER-ORDER CYANOCUPRATES; DOUBLE MICHAEL ADDITION; COPPER CHEMISTRY)
89-2743 007 (ASYMMETRIC OXIDATION; SHARPLESS KINETIC RESOLUTION; EPOXY ALCOHOLS; BETA-KETO SULFOXIDES; TRANSITION-METAL COMPLEXES)
89-0036 006 (SPIN... HIGHLY DIASTEREOSELECTIVE SYNTHESIS)
89-4370 004 (MOLECULAR RECOGNITION; DITOPIC CYCLOPHANE HOSTS; INCLUSION COMPLEXES; COMPLEXATION OF CATIONS; MACROCYCLIC RECEPTOR)

search.txt

89-5195 004 (ASYMMETRIC DIELS-ALDER REACTIONS; CHIRAL AUXILIARIES; LEWIS ACID-CATALYZED CYCLO... ..OF 5-MEMBERED LACTAMS; ACYCLIC N-ALLYLTRICHLOROACETAMIDE DERIVATIVES)
89-3253 003 (CONVENIENT REAGENT FOR EFFICIENTLY OXIDIZING ORGANOBORANES; CHEMISTRY OF Silyl THIOKETONES; VINYL SILANE PHOSPHATES; CHIRAL ORGANO-SILICON COMPOUNDS)
89-7872 003 (TITANIUM- CARBOHYDRATE COMPLEXES; HIGHLY ENANTIOSELECTIVE ASYMMETRIC REACTIONS OF CARBONYL-COMPOUNDS; ORGANOTITANIUM REAGENTS IN ORGANIC-SYNTHESIS)
89-0193... ..CHEMISTRY OF POLYNUCLEAR METAL-COMPLEXES; CARBONYL CLUSTERS; X-RAY CRYSTAL-STRUCTURE)
89-6927 002 (IMMUNOSUPPRESSIVE AGENT, FK-506; OPTIMAL SERUM TROUGH LEVELS OF FK506; CYCLOSPORINE IN CANINE ORTHOTOPIC HEPATIC ALLOGRAFT SURVIVAL... ..SUBSTITUENTS; INDIGOID DERIVATIVES; STABILIZATION ENERGY; N-ACYL DEHYDROALANINES)
89-1678 001 (CONDUCTING POLYMER PRECURSOR; ELECTROCHEMICAL OXIDATION; DIVALENT DOPANT IONS; COPPER(I) CHLORIDE)
89-1750 001 (SOLID-PHASE PEPTIDE-SYNTHESIS; [8-ARGININE... ..SYNTHESIS; PROTECTION OF THE CARBONYL GROUP; SELECTIVE GENERATION)
89-5422 001 (ORGANO-SILICON CHEMISTRY; TITANIUM-CARBOHYDRATE COMPLEXES; POLYMERIZATION OF TRIMETHYLSilyl ACETYLENE)
89-5424 001 (STEREOSELECTIVE CONVERSION; EFFICIENT OXIDATIVE CLEAVAGE OF CARBON ...

34/3,K/4 (Item 1 from file: 45) Links

Fulltext available through: USPTO Full Text Retrieval Options

EMCare

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00592479 EMCare No: 29144071

Action of agents on glucosyltransferases from Streptococcus mutans in solution and adsorbed to experimental pellicle

Wunder D.; Bowen W.H.

D. Wunder, University of Rochester, Center for Oral Biology, Box 611, 601 Elmwood Avenue, Rochester, NY 14642 United States

Archives of Oral Biology (ARCH. ORAL BIOL.) (United Kingdom) 1999 , 44/3 (203-214)

CODEN: AOBIA ISSN: 0003-9969

PUBLISHER ITEM IDENTIFIER: S0003996998001290

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 54

RECORD TYPE: Abstract

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...Gtf adsorbed to parotid saliva-coated and hydroxylapatite (surface phase). Reagents tested included the metallic cations LiSUP+, ZnSUP2+, CuSUP2+, FeSUP2+ and FeSUP3+ the oxidizing compounds hypochlorite, Rose Bengal, perborate, and sodium-meta-periodate; and a panel of sugars and... ..50-80%). However, surface-adsorbed Gtfs displayed increased resistance to inhibition by the same metal cations and oxidizing compounds that inhibited them in solution. In contrast, both TGS and dNJ possessed similar inhibition...

DESCRIPTORS:

...metal ion; xylitol; sorbitol; sucrose; periodate sodium; 1 deoxynojirimycin; metal; enzyme inhibitor; ferric ion; monovalent cation; oxidizing agent; sweetening agent; unclassified drug; zinc ion; zinc; DNA; carbohydrate derivative; bacterial DNA; carbohydrate; periodate; sodium; cation; exopolysaccharide; bacterial protein; copper ion; copper; drug derivative; lithium ion; ferrous ion; saliva; synthesis; tooth...

34/3,K/5 (Item 2 from file: 45) Links

Fulltext available through: USPTO Full Text Retrieval Options

EMCare

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00109511 EMCare No: 25351101

Characterization of the hemagglutinin of Staphylococcus epidermidis

Rupp M.E.; Sloat N.; Meyer H.-G.W.; Han J.; Gattermann S.

Dr. M.E. Rupp, 600 S. 42nd St., Omaha, NE 68198-5400 United States

Journal of Infectious Diseases (J. INFECT. DIS.) (United States) 1995 ,
172/6 (1509-1518)

CODEN: JIDIA ISSN: 0022-1899

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 50

RECORD TYPE: Abstract

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...hydrophobicity ($P = .906$). Hemagglutination inhibition studies revealed that hemagglutination was not affected by heat, pH, cation concentration, proteolytic enzymes, biologic detergent, serum proteins, or subinhibitory antibiotics. Hemagglutination was abolished by periodate oxidation and digestion with glycosidases. It was markedly inhibited by beta-lactose and its monosaccharide constituents... ..pentose, ketose, hexosamine, uronic acid, and phosphate. Hemagglutinin of *S. epidermidis* appears to be a polysaccharide distinct from other known adhesins of *S. epidermidis*.

DESCRIPTORS:

glucose; proteinase; lactose; paracetamol; hexosamine; adhesin; acetylsalicylic acid; phosphate; bacterial polysaccharide; ibuprofen ; salicylic acid; polysaccharide; nonsteroid antiinflammatory agent; periodate; biomaterial; antibiotic agent; cation; detergent; plasma protein; uronic acid; monosaccharide; protein; carbohydrate; pentose; ketose; hemagglutination; biofilm; hydrophobicity; human cell; human tissue; chemical composition; concentration response; strain difference... ..priority journal; prosthesis failure; chemical analysis; pathogenesis; prosthesis infection; cell surface; hemagglutination inhibition; heat; pH; oxidation; digestion

34/3,K/6 (Item 1 from file: 50) Links

Fulltext available through: USPTO Full Text Retrieval Options

CAB Abstracts

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0004097901 CAB Accession Number: 19721901246

Effect of aeration on the evolution of organic matter and structural stability in a silty soil amended with ^{14}C -clover.

Traore, B.; Breisch, H.; Guckert, A.; Jacquin, F.

Bulletin de l'Ecole Nationale Supérieure d'Agronomie et des Industries Alimentaires

vol. 14 (1): p.75-86

Publication Year: 1972

ISSN: 0374-6003

Language: French Record Type: Abstract

Document Type: Journal article

... Under aerobic conditions, rapid decomposition of the added organic matter gave rise by biosynthesis to polysaccharide-type compounds which became preferentially incorporated into microbial humin and played an important part in... .. the reduction of Fe causing a marked increase in structural stability after drying and re-oxidation. As the reduced Fe was reconverted to the ferric form it acted both as a cementing agent and as a binding cation.[134:16.07:116.72.01].

34/3,K/7 (Item 1 from file: 73) Links

Fulltext available through: USPTO Full Text Retrieval Options

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11936202 EMBASE No: 2003047648

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Chemical modification of glycyrrhizic acid as a route to new bioactive compounds for medicine

Baltina L.A.

L.A. Baltina, Institute of Organic Chemistry, Ufa Research Center of RAS, 71 Prospect Oktyabrya, Ufa 450054 Russian Federation

Author Email: baltina@anrb.ru

Current Medicinal Chemistry (CURR. MED. CHEM.) (Netherlands) 2003 , 10/2 (155-171)

CODEN: CMCHE ISSN: 0929-8673

Document Type: Journal ; Review

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 120

...desoxy-glycosides, modified analogs of GL, was carried out by the oxidative splitting of the carbohydrate part of GL with NaIOSUB4. Triterpene 2-desoxy--D-glycosides, analogs of GL, were prepared by the glycal method in the presence of iodine-containing promoters or sulfonic acid cation-exchange resin KU-2-8 (H+) and LiBr. New anti-inflammatory and anti-ulcer agents... ..vitro. Preparation niglizin (penta-O-nicotinate of GL) was studied clinically as an anti-inflammatory agent and is of interest for studies as hepatoprotector and HIV inhibitor.

DRUG DESCRIPTORS:

...extract--drug therapy--dt; Glycyrrhiza extract--pharmacology--pd; Glycyrrhiza extract--intravenous drug administration--iv; antiinflammatory agent--drug analysis--an; antiinflammatory agent--drug development--dv; antiinflammatory agent--drug therapy--dt; antiinflammatory agent--pharmacology--pd; antiinflammatory agent--intravenous drug administration--iv; antiulcer agent --drug analysis--an; antiulcer agent--drug development--dv; antiulcer agent--drug therapy--dt; antiulcer agent --pharmacology--pd; antiulcer agent--intravenous drug administration --iv; antiallergic agent--drug analysis--an; antiallergic agent--drug development--dv; antiallergic agent--drug therapy --dt; antiallergic agent--pharmacology--pd; antiallergic agent--intravenous drug administration--iv; antidote--drug analysis --an; antidote--drug development--dv; antidote--drug therapy... ..development--dv; antioxidant--drug therapy--dt; antioxidant --pharmacology--pd; antioxidant--intravenous drug administration--iv; antineoplastic agent--drug analysis--an; antineoplastic agent --drug development--dv; antineoplastic agent--drug therapy--dt; antineoplastic agent--pharmacology--pd; antineoplastic agent --intravenous drug administration--iv; antiviral agent--drug analysis--an; antiviral agent--drug development--dv; antiviral agent--drug therapy--dt; antiviral agent--pharmacology--pd; antiviral agent--intravenous drug administration--iv; ammonium derivative--drug therapy--dt; ammonium derivative--pharmacology--pd; carboxyl group...

MEDICAL DESCRIPTORS:

...hepatitis--drug therapy--dt; Human immunodeficiency virus infection --drug therapy--dt; drug synthesis; chemical reaction; oxidation; separation technique; cation exchange; drug potency; in vitro study; structure activity relation; human; nonhuman; review

34/3,K/8 (Item 1 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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03943429 PMID: 1123323

Isolation and characterization of sulfhydryl oxidase from bovine milk.

Janolino V G; Swaisgood H E

Journal of biological chemistry (UNITED STATES) Apr 10 1975 , 250 (7) p2532-8 , ISSN: 0021-9258--Print Journal Code: 2985121R

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.

Languages: ENGLISH

search.txt

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...sample weight, of which 89% could be attributed to amino acid residues and 11% to carbohydrate residues. Five half-cystine residues per subunit were indicated by cysteine acid analysis and by... ..tentatively suggests the presence of one disulfide bond. Sulphydryl oxidase was found to catalyze the oxidation of sulphydryl groups in both small compounds and proteins, using O₂ as oxidant and producing... ..otherwise identical conditions, full recovery of RNase activity required 24 hours. The presence of reducing agent was not required for this activity, nor was prior reduction of the sulphydryl oxidase. Based...
; Amino Acids--analysis--AN; Animals; Binding Sites; Cations, Divalent ; Cattle; Electrophoresis, Polyacrylamide Gel; Fucose--analysis--AN; Galactosamine--analysis--AN; Glutathione; Hexoses--analysis--AN...
Chemical Name: Amino Acids; Cations, Divalent; Hexoses; Sialic Acids; Fucose; Urea; Mercaptoethanol; Glutathione; Iron; Galactosamine; Oxidoreductases; Ribonucleases

34/3,K/9 (Item 1 from file: 156) Links

Fulltext available through: ScienceDirect

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1055717 NLM Doc No: CRISP/98/EY00484-30 Sec. Source ID: CRISP/98/EY00484-30
INTRAOCULAR TRANSPORT AND METABOLISM

REDDY VN

OAKLAND UNIVERSITY, EYE RESEARCH INSTITUTE, ROCHESTER, MI 48309-4401

Source: Crisp Data Base National Institutes Of Health

City or State: MICHIGAN

Pub. Year: 1997

Sponsoring Agency: U.S. DEPT. OF HEALTH AND HUMAN SERVICES; PUBLIC HEALTH SERVICE; NATIONAL INST. OF HEALTH, NATIONAL EYE INSTITUTE

Award Type: Grant

Document type: Research

Languages: ENGLISH

Record type: Completed

RPROJ The long range goal is to provide an understanding of the role of oxidation and transport mechanisms in human senile cataract. We have recently succeeded in growing human lens... ..of radiolabeled amino acids. Other specific aims include: the determination of glutathione, amino acid and cation compositions in HLE cells; a number of key enzymes of carbohydrate and glutathione metabolism and their role in defending the lens against oxidative damage; the relative... ..oxygen and other oxidants on these parameters. Since cells undergoing differentiation are more vulnerable to oxidation, efforts will be made to examine the steps of this differentiation process under normal conditions...

Identifiers: ...inhibitor; intraocular fluid; lens; lens protein; cataract; gene expression; human tissue; immunochemistry; immunofluorescence technique; rubidium; oxidizing agent; aldehyde reductase; glutathione reductase; glutathione; catalase; glutathione peroxidase; hydrogen peroxide ; adenosinetriphosphatase; chromatography; gel electrophoresis; protein...

34/3,K/10 (Item 1 from file: 399) Links

Fulltext available through: USPTO Full Text Retrieval Options

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140077343

CA: 140(6)77343f

JOURNAL

Oxidation and metal-ion affinities of a novel cyclic tetrasaccharide

Author: Dunlap, Christopher A.; Cote, Gregory L.; Momany, Frank A.

Location: Fermentation Biotechnology Research Unit, National Center for Agricultural Utilization Research, Agricultural Research Service, United States Department of Agriculture, Peoria, IL, 61604-3999, USA

Journal: Carbohydr. Res.

Date: 2003
Volume: 338 Number: 22 Pages: 2367-2373
CODEN: CRBRAT
ISSN: 0008-6215
Publisher Item Identifier: 0008-6215(03)00400-2
Language: English
Publisher: Elsevier Ltd.

34/3,K/11 (Item 2 from file: 399) Links
Fulltext available through: ScienceDirect
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139250284 CA: 139(16)250284s PATENT
Coupling low-molecular substances to a modified polysaccharide, especially
lactonized and/or oxidized hydroxyethyl starch for the preparation of drug
formulation
Inventor (Author): Orlando, Michele; Hemberger, Juergen
Location: Germany,
Assignee: Biotechnologie - Gesellschaft Mittelhessen MbH
Patent: PCT International ; WO 200374088 A2 Date: 20030912
Application: WO 2003EP2084 (20030228) *DE 10209822 (20020306)
Pages: 34 pp.
CODEN: PIXXD2
Language: German
Patent Classifications:
Class: A61K-047/48A
Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH;
CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID;
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN;
MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; TJ; TM; TN; TR;
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
Designated Regional: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG;
CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; SE; SI; SK;
TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

34/3,K/12 (Item 3 from file: 399) Links
Fulltext available through: ScienceDirect
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139219381 CA: 139(14)219381x PATENT
Coupling proteins to a modified polysaccharide, especially oxidized hydroxyethyl
starch for use as drugs
Inventor (Author): Hemberger, Juergen; Orlando, Michele
Location: Germany,
Assignee: Biotechnologie - Gesellschaft Mittelhessen MbH
Patent: PCT International ; WO 200374087 A1 Date: 20030912
Application: WO 2003EP2083 (20030228) *DE 10209821 (20020306)
Pages: 38 pp.
CODEN: PIXXD2
Language: German
Patent Classifications:
Class: A61K-047/48A; C08B-031/18B
Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH;
CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID;
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN;
MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; TJ; TM; TN; TR;
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
Designated Regional: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG;
CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; SE; SI; SK;
Page 113

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TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

34/3,K/13 (Item 4 from file: 399) Links

Fulltext available through: ScienceDirect

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131303223 CA: 131(22)303223q PATENT

Small particles having walls made of cross-linked proteins and polysaccharides and bearing surficial hydroxam groups for chelating metal ions, methods for their production and applications in cosmetics, pharmaceuticals, and foodstuffs

Inventor (Author): Perrier, Eric; Buffevant, Chantal; Bonnet, Isabelle; Levy, Marie-Christine

Location: Fr.

Assignee: Coletica

Patent: Germany Offen. ; DE 19916896 A1 Date: 19991021

Application: DE 19916896 (19990414) *FR 984611 (19980414)

Pages: 28 pp.

CODEN: GWXXBX

Language: German

Patent Classifications:

Class: B01J-013/02A; A61K-009/50B; A61K-049/00B; A61K-051/12B; A23P-001/04B; C02F-001/58B; A61K-007/50B; C09K-015/04B

34/3,K/14 (Item 5 from file: 399) Links

Fulltext available through: ScienceDirect

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123118051 CA: 123(10)118051d PATENT

Breaking of crosslinked polymer gels with persulfate and sequestering agent for profile control in petroleum recovery

Inventor (Author): Harris, Phillip C.; Heath, Stanley J.

Location: USA

Assignee: Halliburton Co.

Patent: United States ; US 5393810 A Date: 950228

Application: US 176165 (931230)

Pages: 5 pp.

CODEN: USXXAM

Language: English

Patent Classifications:

Class: 524056000; C08K-005/15A; C08K-003/38B; C08L-005/00B; E21B-043/26B

34/3,K/15 (Item 1 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0430818 DBA Accession No.: 2007-17125 PATENT

Producing interleukin (IL)-29 comprises culturing a prokaryotic host cell comprising a nucleic acid molecule encoding IL-29 in a growth medium recombinant cytokine protein purification via bacterium culture using fermentor

Author: ZAMOST B L; LEE G F; DEDINSKY R M

Patent Assignee: ZYMOGENETICS INC 2007

Patent Number: WO 200741713 Patent Date: 20070412 WPI Accession No.: 2007-476618

(200746)

Priority Application Number: US 723544 Application Date: 20051004

National Application Number: WO 2006US39139 Application Date: 20061004

Language: English

Abstract: ...in a second growth medium at a pH of 6.2-7.2, where a carbohydrate feed

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solution is fed into the fermentation vessel at 6-8 hours elapsed fermentation time; (D) adding an inducing agent to the fermentation vessel at 20-30 hours elapsed fermentation time; and (E) harvesting the... ..a purified monopegylated IL-29 polypeptide, produced by the methods above. BIOTECHNOLOGY - Preferred Method: The carbohydrate feed solution comprises a glycerol or glucose at 10-30 g/L growth medium, and... ..acids (SEQ ID NO: 4), or 176 amino acids (SEQ ID NO: 6). The inducing agent of step (d) is isopropyl thiogalactopyranoside, where isopropyl thiogalactopyranoside is added to the culture at... ..medium under conditions where the encoded IL-29 polypeptide is expressed; (B) adding an inducing agent to induce expression of the IL-29 polypeptide; (C) harvesting the prokaryotic host cells; (D)... ..polyethylene glycol, salt, 0.5-1.25 M arginine and a mixture of reduced and oxidized molecules for 1-26 hours at a temperature of 4-30degreesC and a pH 7... ..a final concentration of 0.05-3.0 mg/ml. The mixture of reduced and oxidized molecules of the refolding buffer are selected from cysteine and cystine, dithiothreitol and cystine, reduced glutathione and oxidized glutathione, or dithiothreitol and oxidized glutathione. Purifying an IL-29 polypeptide comprises: (A) providing the IL-29 polypeptide according to... ..B) loading the filtered solution comprising refolded IL-29 polypeptide of step (a) onto a cation exchange chromatography column equilibrated with sodium acetate at pH 5.5; (C) eluting bound IL... ..polypeptide eluate through a 0.45 microns filter. The IL-29 polypeptide elutes from the cation exchange column to form a pool at 0.7-0.8 M sodium chloride after... ..further comprises (h) loading the IL-29 polypeptide of step (g) onto a high performance cation exchange chromatography column equilibrated with 50 mM sodium acetate comprising 0-300 mM sodium chloride... ..a step or gradient elution format. The IL-29 polypeptide elutes from the high performance cation exchange chromatography column at about 0.4 M sodium chloride to 0.6 M sodium... ..0.2 microns membrane; (H) loading the solution of step (g) onto a high performance cation exchange chromatography column equilibrated with 50 mM sodium acetate, 200 mM sodium chloride, pH 5.5; (I) eluting monopegylated IL-29 polypeptide from the high performance cation exchange chromatography column with a linear 50 mM sodium acetate, 500 mM sodium chloride gradient...

34/3,K/16 (Item 2 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0408974 DBA Accession No.: 2006-22470 PATENT

System for pre-diagnosing or diagnosing diabetes in subject, comprises detection of marker such as transthyretin, apolipoprotein CII or CIII, and serum albumin for use in diabetes diagnosis in rat and human

Author: YOSHIKAWA T; NAITO Y; ARIKUNI H; AKAGIRI S; MIHARA K; OOKI T; YAMAGUCHI T; MAFUNE S; TAKAHASHI Y; NAKASHIMA Y; AOKI M; KOBAYASHI M; KIGAWA E

Patent Assignee: YOSHIKAWA T; BIOMARKER SCI CO LTD 2006

Patent Number: WO 200673195 Patent Date: 20060713 WPI Accession No.: 2006-621405 (200664)

Priority Application Number: JP 2005327243 Application Date: 20051111

National Application Number: WO 2006JP300115 Application Date: 20060106

Language: Japanese

Abstract: ...substance, or a device or apparatus for selectively recognizing the marker substance, for manufacturing an agent for pre-diagnosing or diagnosing diabetes in a subject; (3) evaluating a substance for its... ..its derivative, and serum albumin. The factor is chosen from nucleic acid molecule, polypeptide, lipid, carbohydrate, organic low molecule, and their composite molecules. The factor is preferably a protein or a... ..transthyretin derivative is chosen from S-cysteinyl transthyretin, glutathionized transthyretin, disulfide (S-S) bonded transthyretin, oxidation transthyretin, formylated transthyretin, acetylated transthyretin, phosphorylated transthyretin, carbohydrate addition transthyretin, myristylized transthyretin, and their composite derivatives. The reduction in transthyretin level or the... ..ID No. 10 and 12, in which the residue at position 94 and 95 comprises carbohydrate. The factor (antibody) is capable of differentiating apolipoprotein CIII and its derivative, and capability of... ..a reference value, where the marker

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substance is a protein chosen from protein trapped in cation exchanger at pH 7.0 or less and having molecular weight of 13800, protein trapped... ..or less and having molecular weight of 9400, 9700 or 66000 and protein trapped in cation exchanger at pH 7.0 or less and having molecular weight of 9400, 9700 or... ..support. The marker substance is a protein chosen from protein capable of binding with weak cation exchanger at pH 4.0 and having a mass/electric charge ratio that produces an... ..an ion peak at 9060 in mass spectrometry, protein capable of binding with the weak cation exchanger at pH 4.0 and having a mass/electric charge ratio that produces an... ..13700, 3560 or 4180 in mass spectrometry, and protein capable of binding with the weak cation exchanger at pH 4.0 and having a mass/electric charge ratio that produces an...

34/3,K/17 (Item 3 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0403048 DBA Accession No.: 2006-16544 PATENT

New expression vector comprising prokaryotic origin of replication, transcriptional initiation DNA element, nucleotide sequence, and transcriptional terminator, useful for producing fibroblast growth factor 18 (FGF18) protein involving fibroblast growth factor gene expression in host cell for use in recombinant FGF18 protein preparation

Author: REARDON B J; JULIEN S D; CHAN C; LIU H Y

Patent Assignee: ZYMOGENETICS INC 2006

Patent Number: WO 200663362 Patent Date: 20060615 WPI Accession No.: 2006-446097 (200645)

Priority Application Number: US 635023 Application Date: 20041210

National Application Number: WO 2005US45166 Application Date: 20051212

Language: English

Abstract: ...fed into the fermentation vessel before 15 hours elapsed fermentation time (EFT); adding an inducing agent to the fermentation vessel at 20-30 hours EFT; and harvesting the host cells at 48-56 hours EFT. The inducing agent is isopropyl B-D thiogalactopyranoside (IPTG) at 0.5 to 2 mM. The feed solution comprises a carbohydrate selected from glycerol and glucose at a concentration of growth medium, and a feed rate of 5-15 grams of carbohydrate per hour. The glycerol is 40-70 % v/v glycerol or the glucose is 40... ..by addition of a refolding buffer comprising arginine salts and a mixture of reducing and oxidizing components; isolating the FGF18 or trFGF18 protein by removing unfolded and aggregated proteins by filtering; and purifying the FGF18 or trFGF18 refolded protein on a cation exchange column; where the isolated and purified FGF18 protein is capable of being biologically active... ..by addition of a refolding buffer comprising arginine salts and a mixture of reducing and oxidizing components; isolating the FGF18 or trFGF18 protein by removing unfolded and aggregated proteins by filtering; purifying the FGF18 or trFGF18 refolded protein on a cation exchange column; and purifying the FGF18 or trFGF18 eluate on a hydrophobic interaction column, where...

34/3,K/18 (Item 4 from file: 357) Links

Fulltext available through: ScienceDirect

Derwent Biotech Res.

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0345140 DBA Accession No.: 2004-17432 PATENT

New expression vectors for the large-scale production of IL-21 proteins comprises a prokaryotic origin of replication, a transcriptional initiation DNA element, a polynucleotide sequence and a transcriptional terminator plasmid-mediated gene transfer and expression in Escherichia coli for recombinant interleukin-21 production and purification

Author: CHANG C; ZAMOST B L; COVERT D C; LIU H Y; DE JONGH K S; MEYER J D; HOLDERMAN S D

Patent Assignee: ZYMOGENETICS INC 2004

Patent Number: WO 200455168 Patent Date: 20040701 WPI Accession No.: 2004-500211
(200447)

Priority Application Number: US 433452 Application Date: 20021213

National Application Number: WO 2003US39764 Application Date: 20031212

Language: English

Abstract: ...fed into the fermentation vessel before 15 hours elapsed fermentation time (EFT); adding an inducing agent to the fermentation vessel at 20-30 hours EFT; and harvesting the host cells at 48-56 hours EFT. The inducing agent is isopropyl thiogalactopyranoside (IPTG) at 0.5-2 mM. The feed solution comprises a carbohydrate selected from glycerol and glucose at a concentration of growth medium, and a feed rate of 5-15 grams of carbohydrate per hour. The glycerol is 40-70 (preferably 70 %) v/v glycerol or the glucose... ..by addition of a refolding buffer comprising arginine salts and a mixture of reducing and oxidizing components; isolating the IL-21 protein by removing unfolded and aggregated proteins by filtering; and purifying the IL-21 refolded protein on a cation exchange column, where the isolated and purified IL-21 protein is capable of being biologically... ..by addition of a refolding buffer comprising arginine salts and a mixture of reducing and oxidizing components; isolating the IL-21 protein by removing unfolded and aggregated proteins by filtering; purifying the IL-21 refolded protein on a cation exchange column; and purifying the IL-21 eluate on a hydrophobic interaction column, where the... ..into refolding buffer comprising about 0.75 M arginine, 2 mM DTT/4 mM cysteine oxidation-reduction pair at least 20 times; adjusting pH to about 5.5 with 20 % acetic...

34/3,K/19 (Item 1 from file: 391) Links
Beilstein Database - Reactions
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Reaction Id: 716389

Reactants

BN=605842 1-phenyl-ethanone

Products

BN=1905149 1-phenyl-ethanol

No. of Reaction Details: 382

No. of References: 359

References

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Trichlorosilane-Dimethylformamide (Cl₃SiH-DMF) as an Efficient Reducing Agent. Reduction of Aldehydes and Imines and Reductive Amination of Aldehydes under Mild Conditions Using Hypervalent... M. MODIFIED BOROHYDRIDE AGENTS, METHYLTRIPHENYLPHOSPHONIUM TETRAHYDROBORATE; MePh₃P + BH₄ - AS A SELECTIVE AND AN EFFICIENT REDUCING AGENT SYNCAV ; Synth.Comm. ; 26-13(1996)2429-2442;

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359, 6354659 Thormeier, Sabine ...

34/3,K/20 (Item 2 from file: 391) Links
Beilstein Database - Reactions
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Reaction Id: 218058
Reactants
BN=1734497 oct-1-ene
Products
BN=79912 hexyloxirane
No. of Reaction Details: 195.

No. of References: 189

Reaction Details

...Reagent: aq. H₂O₂
 Catalyst: mesoporous titanium silicalite 1
 Solvent: methanol
 Temp: 40 C
 Reaction Type: Epoxidation (Ref. 35)
 Classification: Preparation
 Yield: 92 percent (BN=79912)
 Reagent: benzonitrile, H₂O₂, K₂CO₃... ..beta
 -octabromoporphyrinato-manganese(III) chloride
 Solvent: CH₂Cl₂
 Time: 10 min
 Conditions: Ambient temperature further oxidizing agents, further catalysts
 (Comment: Yield given) (Ref. 65)
 Classification: Preparation
 Reagent: benzoyl peroxide... ..Classification: Chemical behaviour
 Reagent: MCPBA
 Solvent: 1,2-dichloro-ethane
 Temp: 25 C
 Conditions: epoxidation of alkenes with MCPBA and MCPBA-O-D, kinetics, primary and secondary deuterium kinetic isotope effect, steric influence on epoxidation reaction, mechanism, reaction transition state
 Subject Studied: Rate constant (Ref. 79)
 Classification: Chemical... ..behaviour
 Reagent: H₂O₂
 Catalyst: CH₃ReO₃
 Solvent: acetonitrile H₂O
 Temp: 25 C
 Conditions: pH 1, epoxidation of alkyl-substituted olefins by H₂O₂ catalyzed by CH₃ReO₃ in MeCN-H₂O or in CH₃OD...10 C
 Conditions: investigation of the (tetrakis(2,6-dichlorophenyl)porphyrinato)iron(III) perchlorate-catalyzed epoxidation of olefins and oxidative cleavage of diols by m-chloroperbenzoic acid and pentafluoroiodobenzene
 Subject Studied... ..MoO₃
 Solvent: 1,2-dichloro-benzene
 Temp: 110 C
 Conditions: transition metal oxide-catalyzed olefine oxidation, various olefins (Ref. 99)
 Classification: Chemical behaviour
 Yield: 68 percent (BN=79912)
 Reagent... ..ITQ-7
 Solvent: acetonitrile
 Time: 3.5 hour(s)
 Temp: 59.85 C
 Reaction Type: Epoxidation (Ref. 103)
 Classification: Preparation
 Yield: 80 percent Chromat. (BN=79912)
 Reagent: acetaldehyde... ..aq. H₂O₂
 Solvent: various solvent(s)
 Time: 20 hour(s)
 Temp: 60 C
 Reaction Type: Epoxidation (Ref. 105)
 Classification: Preparation
 Yield: 76 percent (BN=79912)
 Reagent: hydrogen peroxideol various solvent(s)
 Time: 1 hour(s)
 Temp: 79.85 C
 Reaction Type: Epoxidation (Ref. 125)
 Classification: Preparation
 Yield: 99 percent Turnov. (BN=79912)
 Reagent: 2,6... ..bound Ni(acac)₂
 Solvent: CH₂Cl₂

Time: 4 hour(s)
 Temp: 25 C
 Reaction Type: Epoxidation (Ref. 140)
 Classification: Preparation
 Reagent: aq. H₂O₂
 Catalyst: w/O-Ti-NaY
 Time... ..H₂F₆Naw17055)
 Solvent: 1,2-dichloro-ethane
 Time: 24 hour(s)
 Temp: 60 C
 Reaction Type: Epoxidation (Ref. 142)
 Classification: Preparation
 Reagent: aq. H₂O₂
 Catalyst: mesoporous titanium silicalite 1
 Solvent: methanol
 Temp: 40 C
 Reaction Type: Epoxidation (Ref. 143)
 Classification: Preparation
 Reagent: aq. H₂O₂
 Catalyst: Ti-Ge-ITQ-7
 Solvent: acetonitrile
 Time: 3.5 hour(s)
 Temp: 59.85 C
 Reaction Type: Epoxidation (Ref. 144)
 Classification: Preparation
 Reagent: aq. H₂O₂
 Solvent: various solvent(s)
 Time: 20 hour(s)
 Temp: 60 C
 Reaction Type: Epoxidation (Ref. 145)
 Classification: Preparation
 Yield: 41 percent Chromat. (BN=79912)
 Reagent: aq. H₂O₂... ..ol various solvent(s)
 Time: 1 hour(s)
 Temp: 79.85 C
 Reaction Type: Epoxidation (Ref. 149)
 Classification: Preparation
 Yield: 57.6 percent Chromat. (BN=79912)
 Reagent: O₂... ..2-dichloro-ethane
 Time: 22 hour(s)
 Temp: 20 C
 Pres: 760 Torr
 Reaction Type: Epoxidation (Ref. 150)
 Classification: Preparation
 Yield: 72 percent (BN=79912)
 Reagent: O₂ benzhydrol... ..N-hydroxyphthalimide
 Solvent: various solvent(s)
 Time: 24 hour(s)
 Temp: 90 C
 Reaction Type: Oxidation (Ref. 151)
 Classification: Preparation
 Yield: 72 percent (BN=79912)
 Reagent: H₂O₂ H₂O... ..Ph₂AsMe
 Solvent: 2,2,2-trifluoro-ethanol
 Time: 45 min
 Temp: 75 C
 Reaction Type: Epoxidation (Ref. 152)
 Classification: Preparation
 Reagent: H₂O₂
 Catalyst: MoO₅(OAs(n-C₁₂H₂₅)₃)(H₂O))
 Solvent: CHCl₃ H₂O
 Time: 24 hour(s)
 Temp: 60 C

Reaction Type: Epoxidation (Ref. 153)

Classification: Preparation

Reagent: N-hydroxyphthalimide O₂ tetralin

Catalyst: Co... Mo(CO)₆

Solvent: benzonitrile

Time: 14 hour(s)

Temp: 60 C

Reaction Type: Epoxidation (Ref. 154)

Classification: Preparation

Yield: 83 percent (BN=79912)

Reagent: H₂O₂ Mn-trimethyltriazacyclononane ascorbic acid

Reaction Type: Epoxidation (Ref. 155)

Classification: Preparation

Yield: 96 percent Turnov. (BN=79912)

Reagent: H₂O₂

Catalyst... pic)₂)

Solvent: H₂O CH₂Cl₂

Time: 24 hour(s)

Temp: 20 C

Reaction Type: Epoxidation (Ref. 156)

Classification: Preparation

Reagent: tetrabutylammonium monopersulfate

Catalyst: MnTPFPPOAc) n-Bu₄NOAc... acetonitrile H₂O

Time: 11 hour(s)

Temp: 0 C

ph: 7.0

Reaction Type: Epoxidation (Ref. 164)

Classification: Preparation

Yield: 94 percent Chromat. (BN=79912)

Reagent: hydrogen peroxide... methyltrioctylammonium hydrogensulfate

Solvent: H₂O toluene

Time: 4 hour(s)

Temp: 90 C

Reaction Type: Epoxidation (Ref. 165)

Classification: Preparation

Yield: 90 percent Spectr (BN=79912)

Reagent: H₂O₂, H₂O... bound Ni(acac)₂

Solvent: CH₂Cl₂

Time: 4 hour(s)

Temp: 25 C

Reaction Type: Epoxidation (Ref. 179)

Classification: Preparation

Yield: 86 percent (BN=79912)

Reagent: Na₂WO₄*2H₂O, aq ...

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34/3,K/21 (Item 3 from file: 391) Links
Beilstein Database - Reactions
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Reaction Id: 140976

Reactants

BN=1424379 diphenylmethanol

Products

BN=1238185 benzophenone

No. of Reaction Details: 274

No. of References: 262

Reaction Details

...1238185)

Reagent: benzyltriphenylphosphonium peroxodisulfate

Solvent: acetonitrile

Time: 0.5 hour(s)

Conditions: Heating

Reaction Type: Oxidation (Ref. 5)

Classification: Preparation

Yield: 92 percent Chromat. (BN=1238185)

Reagent: tert-butyl... ...1,2-dichloro-ethane

Time: 12 hour(s)

Temp: 40 C

Reaction Type: Catalytic oxidation (Ref. 6)

Classification: Preparation

Yield: 95 percent (BN=1238185)

Reagent: O₂

Catalyst: CeO₂-Ru

Time: 6 hour(s)

Temp: 140 C

Reaction Type: Oxidation (Ref. 7)

Classification: Preparation

Yield: 86 percent (BN=1238185)

Reagent: Fe(NO₃)₃*1.5N₂O₄

Solvent: CH₂Cl₂

Conditions: Ambient temperature further oxidizing agent, further conditions and solvents (Ref. 8)

Classification: Preparation

Yield: 80 percent (BN=1238185...Et₃N

Solvent: CH₂Cl₂

Temp: j: -70 - 20 C

Subject Studied: Product distribution

Reaction Type: Swern oxidation

Prototype Reaction: Further Variations: Reagents (Ref. 127)

Classification: Chemical behaviour

Yield: 98... ...14 hour(s)

Temp: j: -40 C

Subject Studied: Product distribution

Reaction Type: Corey-Kim oxidation

Prototype Reaction: Further Variations: Solvents Reaction partners (Ref. 128)

Classification: Chemical... ...33 hour(s)

Temp: j: -60 - 20 C

Subject Studied: Product distribution

Reaction Type: Swern oxidation

Prototype Reaction: Further Variations: Solvents Reaction partners (Ref. 128)

Classification: ChemicalTemp: 44.85 C

ph: 4.45

Subject Studied: Kinetics Thermodynamic data

Reaction Type: Oxidation (Ref. 135)

Classification: Chemical behaviour

Reagent: pyridinium fluorochromate p-toluenesulfonic acid
 Solvent: dimethylsulfoxide
 Temp: 24.85 C
 Subject Studied: Kinetics
 Reaction Type: Oxidation
 Prototype Reaction: Further Variations: Temperatures (Ref. 136)
 Classification: Chemical behaviour
 Reagent: sodium... ..NaClO₄
 Catalyst: RuCl₃
 Solvent: H₂O methanol
 Temp: 35 C
 Subject Studied: Kinetics
 Reaction Type: Oxidation
 Prototype Reaction: Further Variations: Reaction partners Reagents Solvents
 pH-values (Ref... ..behaviour
 Reagent: benzyltrimethylammonium tribromide, sodium acetate
 Solvent: acetic acid H₂O
 Temp: 60 C
 Conditions: oxidation of various secondary alcohols to the corresponding ketones
 Subject Studied: Product distribution (Ref. 152... ..s)
 Conditions: catalytic ability of the drift-type catalyst, var. resins, var.
 solvent, var. oxidizing cation, var. temp., var. conc. (Ref. 153)
 Classification: Chemical behaviour
 Yield: 96 percent (BN=1238185)
 Reagent: N-hydroxyphthalimide, pyridine, NaClO₄
 Solvent: acetonitrile
 Conditions: electrolytical oxidation, anode potential 0.85 V (Ref. 154)
 Classification: Preparation
 Yield: 96 percent (BN... ..Product distribution (Ref. 173)
 Classification: Chemical behaviour
 Solvent: benzene
 Conditions: various temp., time, oxidizing agents and additives, reaction of var.
 alcohols
 Subject Studied: Product distribution (Ref. 174... pyridinium chlorochromate
 Solvent: dimethylsulfoxide
 Temp: 24.9 - 71.9 C
 Conditions: rate constants for the oxidation by PCC at 298 K, 303 K, 308 K and 313
 K, activation parameters (E_a, log A, Delta S + +) for the oxidation by PCC at 345
 K.
 Subject Studied: Kinetics Mechanism Rate constant (Ref. 179Et₃N
 Solvent: toluene
 Time: 16 hour(s)
 Temp: j: %-40 C
 Reaction Type: Corey-Kim oxidation (Ref. 184)
 Classification: Preparation
 Yield: 96 percent (BN=1238185)
 Reagent: KMnO₄ aluminumCl)₂
 Solvent: H₂O
 Time: 4 hour(s)
 Temp: 90 C
 Reaction Type: Oppenauer-type oxidation (Ref. 235)
 Classification: Preparation
 Yield: 99 percent (BN=1238185)
 Reagent: N-tert-butyl... ..O₂
 Catalyst: Na₅PV₂Mo₁₀O₄₀
 Solvent: H₂O
 Time: 18 hour(s)
 Temp: 90 C
 Reaction Type: Oxidation Oxidative dehydrogenation (Ref. 237)
 Classification: Preparation
 Yield: 90 percent (BN=1238185)
 Reagent: benzyltriphenylphosphonium chlorochromate
 Solvent: CH₂Cl₂

Time: 2 min
 Conditions: microwave irradiation
 Reaction Type: Oxidation (Ref. 238)
 Classification: Preparation
 Yield: 93 percent (BN=1238185)
 Reagent: benzyltriphenylphosphonium peroxymonosulfate
 Time: 5 min
 Reaction Type: Oxidation (Ref. 239)
 Classification: Preparation
 Yield: 86 percent (BN=1238185)
 Reagent: H₂C=CH₂
 Catalyst... ..2.2.0)octane dichromate
 Solvent: CH₂Cl₂
 Time: 220 s
 Conditions: Microwave irradiation
 Reaction Type: Oxidation (Ref. 242)
 Classification: Preparation
 Yield: 96 percent (BN=1238185)
 Reagent: bis(1-CH₂Ph... ..3.1.1 3,7)decaneS208
 Solvent: acetonitrile
 Time: 25 min
 Conditions: Heating
 Reaction Type: Oxidation (Ref. 243)
 Classification: Preparation
 Yield: 93 percent (BN=1238185)
 Reagent: 1-benzyl-4... ..1-azoniabicyclo(2.2.2)octane dichromate aluminum
 chloride
 Time: 60 s
 Reaction Type: Oxidation (Ref. 244)
 Classification: Preparation
 Yield: 100 percent (BN=1238185)
 Reagent: wet alumina ammonium chlorochromate
 Time: 3 min
 Conditions: microwave irradiation
 Reaction Type: Oxidation (Ref. 245)
 Classification: Preparation
 Reagent: Br₂/neutral alumina
 Solvent: CH₂Cl₂
 Time: 1 hour(s)
 Reaction Type: Oxidation (Ref. 246)
 Classification: Preparation
 Yield: 90 percent (BN=1238185)
 Reagent: benzyltriphenylphosphonium dichromate
 Solvent: acetonitrile
 Time: 20 min
 Conditions: Heating
 Reaction Type: Oxidation (Ref. 247)
 Classification: Preparation
 Yield: 99 percent (BN=1238185)
 Reagent: O₂ MS3A... ..Catalyst: Pd(OAc)₂
 Solvent: toluene
 Time: 2 hour(s)
 Temp: 80 C
 Reaction Type: Oxidation (Ref. 248)
 Classification: Preparation
 Yield: 98 percent (BN=1238185)
 Reagent: (n-BuPPH₃)₂Cr₂O₇
 Solvent: CHCl₃
 Time: 0.75 hour(s)
 Conditions: Heating
 Reaction Type: Oxidation (Ref. 249)
 Classification: Preparation
 Yield: 100 percent (BN=1238185)

Reagent: BaMnO₄
 Time: 2 hour(s)
 Temp: 90 C
 Reaction Type: Oxidation (Ref. 250)
 Classification: Preparation
 Yield: 93 percent Chromat. (BN=1238185)
 Reagent: CrO₃ HZSM-5
 Time: 20 s
 Conditions: microwave irradiation
 Reaction Type: Oxidation (Ref. 251)
 Classification: Preparation
 Reagent: PPh₃ LiOH*H₂O
 Catalyst: (p-cymene)RuCl₂... ..percent (BN=1238185)
 Reagent: Grieco-Dess-Martin periodinane
 Solvent: acetonitrile
 Time: 20 min
 Reaction Type: Oxidation (Ref. 253)
 Classification: Preparation
 Yield: 82 percent (BN=1238185)
 Reagent: zeolite HZSM-5...

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229, 6294030 Hajipour, A. R. ; Mohammadpoor-Baltork, Iraj Solid-Phase Oxidation of Organic Compounds with Benzyltriphenylphosphonium Dichromate PSSLEC ; Phosphorus, Sulfur Silicon Relat.Elem. ; 164 (2000)145... 230, 6571246 Hajipour, A. R. ; Bagheri, H. R. ; Ruoho, A. E. (Russian) Oxidation of alcohols with 1-decyl-4-aza-1-azonia-bicyclo(2.2.2) -octane chlorochromate... Antonio L. ; Ruiz, Rafael ; Castro, Isabel ; Ottenwaelder, Xavier ; Journaux, Yves Alcohol Oxidation by Dioxigen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and... 6263542 Kalena, G. P. ; Jadhav, S. M. ; Banerji, A. DDQ/PbO₂: a Novel Oxidation System for Hindered Electron Rich Benzhydrols MOLEFW ; Molecules ; 5-3(2000)240 - 244... 6258221 Ajjou, Abdelaziz Nait First example of water-soluble transition-metal catalysts for Oppenauer-type oxidation of secondary alcohols TELEAY ; Tetrahedron Lett. ; 42-1(2001)13 - 16;

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250, 6187153 Firouzabadi, Habib ; Karimi, Babak ; Abbassi, Mohammad Efficient Solvent-free Oxidation of Benzylic and Aromatic Allylic Alcohols and Biaryl Acyloins by Manganese Dioxide and Barium Manganate... Tabar-Hydar, Kourosh ; Ghassemzadeh, Mitra Remarkable Fast Microwave-assisted Zeolite HZSM-5 Catalyzed Oxidation of Alcohols with Chromium Trioxide under Solvent-free Conditions JRPSDC ; J.Chem.Res.Synop. ; 5... 252, 6535473 Adair, Gareth R. A. ; Williams, Jonathan M. J. Oxidant-free oxidation: ruthenium catalysed dehydrogenation of alcohols TELEAY ; Tetrahedron Lett. ; 46-47(2005)8233 - 8235... Case, Brenda L. ; South, Michael S. High-Throughput Purification of Solution-Phase Periodinane Mediated Oxidation Reactions Utilizing a Novel Thiosulfate Resin TETRAB ; Tetrahedron ; 55-22(1999)6785 - 6796... Majid M. ; Ajami, Dariush ; Aghapoor, Kuoumars ; Ghassemzadeh, Mitra 'Zeofen', a user-friendly oxidizing reagent CHCOFS ; Chem.Comm. ; 9(1999)833 -

834;

255, 6170333 Stavrescu, Ruxandra... .Tabar-Hydar, Kourosh Ammonium Chlorochromate Adsorbed on Montmorillonite K-10: A New Reagent for the Oxidation of Alcohols to the Corresponding Carbonyl Compounds under Non-Aqueous Conditions MOCMB7 ; Monatsh.Chem. ...584;

258, 6165823 Hajipour, Abdol Reza ; Mallakpour, Shadpour E. ; Imanzadeh, Gholamhasan Oxidation of Alcohols to Carbonyl Compounds under Solvent-free Conditions Using Permanganate Supported on Alumina CMLTAG... .V. D. ; Krasnokutskaya, E. A. ; Yusubov, M. S. ; Kuznetsova, Yu. A. (Russian) Oxidation of Alcohols with Dimethyl Sulfoxide. Oxidant and Substrate Activation Pathways RJOCEQ ; Russ.J.Org.Chem... ...45;

260, 6163435 Matsushita, Tsuyoshi ; Ebitani, Kohki ; Kaneda, Kiyotomi Highly efficient oxidation of alcohols and aromatic compounds catalysed by the Ru-Co-Al hydrotalcite in the presence6160016 Mirza-Aghayan, Maryam ; Heravi, Majid M. Chromium Trioxide on H-Y Zeolite: Rapid Oxidation of Alcohols to Carbonyl Compounds in Solventless System Using Microwaves SYNCAV ; Synth.Comm. ; 29-5... ...262, 6160012 Oezguen, B. ; Degirmenbasi, N. Benzimidazolium bromochromate - a new reagent for bromination and oxidation SYNCAV ; Synth.Comm. ; 29-5(1999)763 - 766;

34/3,K/22 (Item 1 from file: 149) Links

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03288064 Supplier Number: 158500790 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Monday, December 4, 2006 Poster Session III 7:30 a.m. - 4:30 p.m. (Author abstract)

Akaike, Koichi; Tanaka, Shigeya; Imamura, Shin-Ichi; Kasugai, Motofumi; Matsukubo, Hideyuki; Tojo, Hideshi; Sano, Akira
Epilepsia , 47 , s4 , 204(86)

Oct ,

2006

Document Type: Author abstract Publication Format: Magazine/Journal

ISSN: 0013-9580

Language: English

Record Type: Abstract Target Audience: Academic

Author Abstract: ...University Health Science Center, Amarillo, TX)

Rationale: The ketogenic diet is a high-fat, low-carbohydrate, low-protein diet that is anticonvulsant in drug-resistant epileptic children. Furthermore, it is anticonvulsive...the abnormal plasticity for clinical use. Erythropoietin (EPO), recently known as cytoprotective and anti-inflammatory agent, and neurogenic modulator, may constitute an effective therapeutic modality in cases of epileptic insult. However... Hospital, Kagoshima, Kagoshima, Japan)

Rationale: To elucidate an antiepileptic property of gabapentine, we applied this agent to status epilepticus models induced by subcutaneous administration of kainic acid (KA).

Methods: Experiments were...derive energy from ketone bodies (acetoacetate and beta-hydroxybutyrate, (beta)-OHB). The high fat, low carbohydrate ketogenic diet (KD) was developed as an alternative to fasting for seizure management. We previously...is a commercially prepared soy-oil-based KD for children with a fat to protein carbohydrate ratio of 4:1 and is more palatable than lard-based or medium chain triglyceride...separated in three groups (n = 8 mice/group) and were fed either a standard high carbohydrate (chow) diet unrestricted (SD-UR), KC unrestricted (KC-UR), or KC restricted (KC-R) to...lipophilic cell-permeable chelator was used as an iron chelator. Brain HBED concentrations, reduced and oxidized glutathione levels and the oxidative DNA lesion 8-hydroxy-2'-deoxyguanosine (8OHdG/2DG) were measured ...hippocampus. The time-course of the iron changes paralleled the inactivation of mitochondrial aconitase, DNA oxidation (8OHdG/2DG) and glutathione depletion. Systemically administered HBED, a synthetic iron chelator ameliorated SE-induced...the list of ion channels involved in epilepsy is the hyperpolarization-activated cyclic nucleotide-gated cation channels (HCN). Several studies in chronic human epilepsy and various animal models of temporal lobe...In order to evaluate these changes we aimed to investigate the consequences of a convulsant agent called pentylenetetrazol (PTZ). PTZ is a chemical frequently used

search.txt

in the study of epileptic seizures...of convulsants we initially aimed to investigate the interaction of model membranes with a convulsant agent called picrotoxin (PTX). PTX is a noncompetitive antagonist at GABA-A receptors and it blocks...Conclusions: These results demonstrate that a single episode of seizure activity induced by a convulsant agent can alter the functional expression of motor maps. (Supported by Natural Sciences and Engineering Research...

34/3,K/23 (Item 2 from file: 149) Links

TGG Health&Wellness DB(SM)

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02933056 Supplier Number: 92683171 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Psychologic and physiologic effects of dieting in adolescents. (Review Article).

Daee, Allison; Robinson, Paul; Lawson, Melissa; Turpin, Julie A.; Gregory, Brooke; Tobias, Joseph D.

Southern Medical Journal , 95 , 9 , 1032(10)

Sept ,

2002

Publication Format: Magazine/Journal

ISSN: 0038-4348

Language: English

Record Type: Fulltext Target Audience: Professional

Word Count: 7287 Line Count: 00698

...16-year-old girl who was attempting to follow a high-fat, high-protein, low-carbohydrate diet regimen. (6) In this paper, we assess the current dieting practices among adolescents and...

...bulimia attributed the development of their eating disorder to the inability to maintain a low-carbohydrate diet, leading to carbohydrate craving and subsequent cycles of bingeing and purging. (30) Restrained eating and dieting practices, independent...

...had chest pain, arm pain, and subsequent ventricular fibrillation while using thyroid supplements, a sympathomimetic agent, and thiazide diuretics to facilitate weight loss. He concluded, "The common use of inappropriate prescription...

...acids into the blood stream. This ketosis may be augmented by the inclusion of low carbohydrate intake, and, therefore, low endogenous insulin production. Low-carbohydrate/high-protein/high-fat diets have fallen in and out of popularity since the 1960s, resurfacing in various forms, including the Stillman Diet, the Scarsdale Diet, the Zone Diet, the Carbohydrate Addicts' Diet, and the Atkins Diet. These plans are attractive to many dieters because they...

...obese patients make less efficient use of insulin and overproduce insulin in response to a carbohydrate load, which favors conversion of carbohydrate to fat rather than to energy, even when there is an ongoing energy requirement. It...

...loss would occur, such as short fasts and overnight sleep. When a greater quantity of carbohydrate is ingested than can be used immediately or stored as glycogen, the excess is converted...

...do so only in the presence of a simultaneous glucose load. Therefore, on a low-carbohydrate diet, a state of dietary ketosis is achieved, regardless of the amount of fat-rich...

...of ketone bodies, which may also suppress the appetite and curb feelings of hunger.

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Low-carbohydrate/high-protein diets are not without potential for adverse biochemical and physiologic consequences, however. Ketone...

...in patients with gouty diathesis. Bloom and Azar (46) have reported that subjects on low-carbohydrate diets can have postural hypotension. Using an isolated, perfused rat-heart model, Russell and Taegtmeier...

...beating heart loses contractile function (more than 50% loss of function in 60 minutes) when oxidizing acetoacetate alone. Elevated levels of free fatty acids may promote both vascular thrombosis and cardiac...

...ketone bodies, including acetoacetate and (beta)-hydroxybutyrate. These ketone bodies undergo urinary excretion with a cation to maintain electrical neutrality, resulting in the additional loss of cations, including calcium, magnesium, and potassium. (52) when compounded by inadequate intake, deficiencies of these cations may ensue. Mao et al (53) found altered cardiac-conduction function in rats fed a...practices is the use of diets that induce ketosis (very-low-calorie diets or low-carbohydrate/high-fat diets). With very-low-calorie diets, ketosis is induced by inadequate caloric intake and fatty-acid mobilization, while with low-carbohydrate diets, ketosis is induced by decreased insulin-release. When such diets are followed without supplementation...

...of food consumed, changing the type of food eaten, eating less meat, eating less high carbohydrate food, and eating low-calorie foods.

+ Unhealthy weight loss methods were defined as fasting, skipping...

...depletion. Am J Med 1983; 74:1016-1022

(46.) Bloom WL, Azar GJ: Similarities of carbohydrate deficiency and fasting: weight loss, electrolyte excretion, and fatigue. Arch Intern Med 1963; 112:333...

...Hemorheol 1999; 21:147-153

(50.) Ullrich IH, Peters PJ, Albrink MJ: Effect of low-carbohydrate diets high in either fat or protein on thyroid function, plasma insulin, glucose and triglycerides...

34/3,K/24 (Item 3 from file: 149) Links

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02924098

Supplier Number: 81760722 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Review of harmful gastrointestinal effects of carrageenan in animal experiments. (Research Review).

Tobacman, Joanne K.

Environmental Health Perspectives , 109 , 10 , 983(12)

Oct ,

2001

Publication Format: Magazine/Journal

ISSN: 0091-6765

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 11651 Line Count: 01586

Text:

...words: carcinogenesis, carrageenan, carrageenase, diet, furcellaran (furcellaran), hydrolysis, inflammatory bowel disease, nutrition, poligeenan, promoter, sulfated polysaccharide. Environ Health

...Federal Regulations. The stipulations for its use include the following:
a) it is a sulfated polysaccharide, the dominant hexose units of which are galactose and anhydrogalactose; b) range of sulfate content...

...beta)-1,4 linkages), but they differ in degree of sulfation, extent of branching, solubility, cation binding, and ability to form gels under different conditions. (lambda)-Carrageenan is the least branched...

...studies in which carrageenan appears to be a promoter of malignancy in association with another agent, d) studies using a rat model, e) studies using a guinea pig model, f) studies...

...has been implicated in the development of ulcerative colitis, perhaps attributable to interference with butyrate oxidation by colonic epithelial cells (114,115). Butyrate has been shown to induce intestinal cellular differentiation...disruption of lysosomes by accumulation of carrageenan by-products or by interference with normal cellular oxidation-reduction processes from sulfate metabolites--emerges from review of the experimental studies. The impact of...

...dextran sulfate sodium, have induced ulcerations and neoplasia, suggesting that the degree of sulfation and polysaccharide molecular weight may be critical for induction of the observed effects (102).
The major pieces...

...and (kappa) combine easily with milk proteins to improve solubility and texture; serve as thickening agent, emulsifier, stabilizer.

Synergistic effects with locust bean gum, increase in gel strength. Other hydrocolloids may...Lee K-H, Wong H-A.

The molecular weight and viscosity of the water-soluble polysaccharide(s) from *Eucheuma spinosum*. Carbohydr Res 81:1-6 (1980).

(29.) Weiner ML. Toxicological properties...

...Ohbayashi F, Hirono I, Shimada T, Williams GM. Absence of genotoxicity of the carcinogenic sulfated polysaccharide carrageenan and dextran sulfate in mammalian DNA repair and bacterial mutagenicity assays. *Nutr Cancer* 6...

(116.) Babidge W, Millard S, Roediger W. Sulfides impair short chain fatty acid beta-oxidation at acyl-CoA dehydrogenase level in colonocytes: implications for ulcerative colitis. Mol Cell Biochem 181...

...Burns WW, Paper DH. Selective inhibition of cell proliferation and DNA synthesis by the polysulphated carbohydrate ??-carrageenan. Cancer Chemother Pharmacol 36:325-334 (1995).

34/3,K/25 (Item 4 from file: 149) Links
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01906886 Supplier Number: 62212344 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Herbicide Formulations.

search.txt

Tominack, Rebecca L.
Journal of Toxicology: Clinical Toxicology , 38 , 2 , 129
March ,
2000

Publication Format: Magazine/Journal; Refereed
ISSN: 0731-3810
Language: English
Record Type: Fulltext; Abstract Target Audience: Professional
Word Count: 4530 Line Count: 00398

...g., distearyl dimonium chloride, isopropyl palmitate, titanium dioxide); pH buffer (e.g., ammonium hydroxide); antifoaming agent (e.g., dimethicone); and a biocidal preservative (e.g., methyl parabens). The multiagent nature of...

...fungicides, and insecticides. The active ingredient is rarely if ever used commercially as a single agent preparation but must be formulated with other ingredients to allow mixing, dilution, application, and stability...an oil-in-water emulsion upon dilution with water. There may be an additional wetting agent for leaf penetration, a polymeric stabilizer to keep the oil droplets from coalescing, a preservative...

...simply becomes a more dilute solution when water is added. There is usually a wetting agent or surfactant, and perhaps other adjuvants for physical stability such as buffers and preservatives or...

...For example, if a dough is formed for extrusion, the formula may require a binding agent to hold the dough together, an agent to make it plastic enough for extrusion, and a glidant to get it through the...of the active ingredient into the leaf through the waxy cuticle and the water-soluble carbohydrate fraction by their dual solubility. Some aid movement into the substomatal reservoir which improves systemic...

...surfactants is the presence of a sulfate, sulfonate, or phosphate moiety as well as a cation for salt formation (Table 1).

Table 1 Common Agricultural Surfactant Classes

Nonionic Surfactants Anionic Surfactants...mold, fungal, and bacterial growth;

2. acid scavengers such as epoxidized soybean oil to prevent oxidation of unsaturated bonds;

3. antifreeze such as ethylene or propylene glycol to allow overwintering stability...

>>>W: KWIC option is not available in file(s): 399

34/3,K/26 (Item 5 from file: 149) Links

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01844671 Supplier Number: 55067345 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Vanadium.

Barceloux, Donald G.
Journal of Toxicology: Clinical Toxicology , 37 , 2 , 265
March ,
1999

Publication Format: Magazine/Journal; Refereed
ISSN: 0731-3810
Language: English
Record Type: Fulltext; Abstract Target Audience: Professional
Word Count: 8280 Line Count: 00771

Author Abstract: Vanadium is a steel-grey, corrosion-resistant metal, which exists in oxidation states ranging from -1 to +5. Metallic vanadium does not occur in

nature, and the...

...the name panchromium because of the color changes that occur during the transition to various oxidation states.(1) Nils Sefstrom purified vanadium in the oxide form in 1831 and named the...

...natural component of fuel oils. Vanadium probably corrodes the oil-heated boilers by catalyzing the oxidation of sulfur dioxide to sulfur trioxide.(6) Most clinically significant exposures to vanadium occur when...

...powder that is sparingly soluble in water. This steel-grey, corrosion-resistant metal exists in oxidation states from -1 to + 5, but the most common valences are +3, +4, and +5. Metallic vanadium does not occur in nature. The most stable oxidation state is the quadrivalent salts ((VO.sup.+2), vanadyl). Trivalent vanadium ((V.sub.2)(O.sub.3)) is a strong reducing agent that dissolves in acid to form a green hexaqua ion. Pentavalent salts include metavanadate ((MATHEMATICAL...as a catalyst include the following processes: petroleum cracking, purification of exhaust gases, and the oxidation of ethanol.

Sources

Air

General

Exposure of the general population to vanadium in air results...of rock may release vanadium to air or water and also precipitate vanadium with polyvalent cations or organic complexing agents.

Water

Relatively small amounts of vanadium are transported via water compared...

...sup.2+), VO(OH.sup.+)) in reducing environments and as the pentavalent vanadate form under oxidizing conditions. Transport of vanadium in water occurs primarily in suspension, and to a much lesser...

...complaints. The daily ingestion of ammonium vanadyl tartrate 50-100 mg as a cholesterol-lowering agent for several weeks was associated with fatigue, lethargy, abdominal cramps, loose stool, and a green... days).(42)

PATHOPHYSIOLOGY

Mechanism of Action

The systemic effects of vanadium probably result from its oxidizing ability.(43) Vanadium also inhibits oxidative phosphorylation,(44) but the role of this mechanism in...

...lower life forms, vanadium reacts with hydrogen peroxide to form a pervanadate that catalyzes the oxidation of halide ion and also stimulates the phosphorylation of receptor proteins.(18) Thyroid peroxidase is...vanadate is less than by insulin, but vanadate produces greater stimulation of lactate and glucose oxidation than insulin.(55) Both vanadyl and vanadate compounds mimic the action of insulin in isolated...

...of exposure depending on the absorbed dose of vanadium.(75) Vanadium is a weak sensitizing agent of skin at high concentrations. One study associated the development of a dry eczematous dermatitis...are available on methods to enhance the elimination of vanadium. Ascorbic acid was a recommended agent for the treatment of vanadium toxicity based on its ability to reduce the pentavalent vanadate the most effective agent to prevent vanadium poisoning; however, deferoxamine and tiron (4,5-dihydroxy-1, 3-benzene-disulfonic...

...G, Chen X, Ruiz J, van Rossum GDV, Turco S. Effects of vanadyl sulfate on carbohydrate and lipid metabolism in patients with

non-insulin-dependent diabetes mellitus. Metabolism 1996;45:1130...

34/3,K/27 (Item 6 from file: 149) Links

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01770354 Supplier Number: 20790314 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A natural approach to cardiovascular disease and lowering cholesterol risk.

Drug Store News , v20 , n8 , pCP24(1)

May 25 ,

1998

Publication Format: Magazine/Journal

ISSN: 0191-7587

Language: English

Record Type: Fulltext Target Audience: Trade

Word Count: 7540 Line Count: 00637

...when more LDL circulates, more gets layered into the subendothelial space. Secondly, when LDL gets oxidized or glycosylated, it is capable of damaging the arteries and initiating the whole process of...

...adequate antioxidant protection appears to increase the risk of cardiovascular disease. Polyunsaturated oils are easily oxidized, creating free radicals that lead to vascular damage.

The process of hydrogenation is another compounding...

...to be inversely correlated with heart disease. The flavonoid antioxidants in wines probably prevent the oxidation of LDL cholesterol. Some wines also contain levels of salicylic acid sufficient to contribute to...role in the prevention of heart attacks because it can reduce platelet adhesion and prevent oxidation of LDL cholesterol. In the now-famous CHAOS study (Cambridge Heart Antioxidant Study), patients with...elderly, athletes and pregnant women. Chromium is felt to contribute to the regulation of lipid, carbohydrate and protein metabolism. Studies with diabetics show that, in addition to the blood sugar-regulating...reductase-inhibiting activity as at least part of its action. Studies have shown that this agent can reduce cholesterol. However, several points should be made. First, since this has HMG-CoA reductase-inhibiting activity, supplementation with coenzyme Q10 should be recommended. Adverse reactions from taking this agent include heartburn, abdominal distention and dizziness. It should not be taken by individuals with liver ...

...an important herb that came from Ayurvedic medicine. It has been researched as a hypolipidemic agent for the last two decades. Not only has guggul been shown to reduce VLDL, LDL...benefits, including anti-carcinogenic, immune enhancement, anticariogenic and, in addition, may be a powerful preventive agent in the progression of atherosclerosis and hypertension. Green tea's polyphenols are known to block...

...where the fat is metabolized to produce energy. However, it also increases the rate of oxidation so that more fat is burned and more energy is produced. L-carnitine also improves...

...with a healthful diet consisting primarily of fresh fruits, vegetables, moderate whole grains and complex carbohydrate intake, legumes, lean meats and monounsaturated oils, such as olive oil. In general, people are ...Intracellular Free Magnesium in Erythrocytes of Essential Hypertension: Relation to Blood Pressure and Serum Divalent Cations." Proceedings of the National Academy of Sciences of the United States of America 81(1984 ...

- ...a. When it is elevated.
 - b. When it reacts with antioxidants.
 - c. When it becomes oxidized.
 - d. When it combines with HDL cholesterol.
- 5. Chromium affects cardiovascular risks by
 - a. Lowering HDL cholesterol.
 - b. Decreasing glycosylation.
 - c. Elevating triglycerides.
 - d. Oxidizing LDL cholesterol.
- 6. Homocysteine is a substance that
 - a. Protects blood vessels against microvascular damage.
 - b. Oxidizes HDL cholesterol.
 - c. Damages blood vessels and promotes atherosclerosis.
 - d. Increases cardiovascular risks by lowering...
- ...a. It can help to reverse the build-up of atherosclerotic plaque deposits.
 - b. It oxidizes LDL cholesterol.
 - c. It can improve peripheral circulation in patients with intermittent claudication.
 - d. It...

34/3,K/28 (Item 7 from file: 149) Links
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01473324 Supplier Number: 14825528 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Effects of glucose and fatty acids on myocardial ischaemia and arrhythmias. (Review Article)

Oliver, M.F.; Opie, L.H.
The Lancet , v343 , n8890 , p155(4)
Jan 15 ,
1994

Publication Format: Magazine/Journal
ISSN: 0099-5355

Language: English

Record Type: Fulltext; Abstract Target Audience: Professional

Word Count: 3743 Line Count: 00324

Author Abstract: ...FFA. We have taken into account new knowledge of the effects of fatty acids on cation channels and brought up to date the arguments for metabolic intervention with glucose-insulin solutions...

...if the molar ratio of FFA to albumin is sufficiently high.[16] During ischaemia, [beta]-oxidation of lipids in mitochondria is inhibited and there is accumulation of intracellular acylcarnitine and acyl...acid, which indicates peroxidation, is detectable in the plasma of patients during infarction, and lipid oxidation products increase during intravenous thrombolysis.[35]

Rats fed with saturated fatty acids had a high...be a very rapid and maintained inhibition of lipolysis. Nicotinic acid is a powerful antilipolytic agent but it also reduces peripheral arterial resistance, increases heart rate and cardiac work, and is...

...lactate, and pyruvate uptake and also switches the reliance of the myocardium from fat to carbohydrate without a change in oxygen consumption.[43] Also, carnitine enhances glycolysis.[44]

Conclusion

There is...reperfused after a transient period of global ischaemia is accompanied by a stimulation of glucose oxidation. Circ Res 1993; 87: 972-81.

34/3,K/29 (Item 8 from file: 149) Links
TGG Health&Wellness DB(SM)
(c) 2007 The Gale Group. All rights reserved.
01424425 Supplier Number: 14347053 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Rapid, accurate urine testing at the bedside. (includes related article) (Reagent Testing, part 1)

Zaloga, Gary P.
Consultant , v33 , n6 , p90(7)
June ,
1993
Publication Format: Magazine/Journal
ISSN: 0010-7069
Language: English
Record Type: Fulltext; Abstract Target Audience: Professional
Word Count: 4259 Line Count: 00359

...are available. These strips measure specific gravity using ionic concentration methodology. In the presence of cations, protons are released by a complexing agent on the test strip. These protons react with the indicator bromthymol blue, which changes color...enzyme glucose oxidase to catalyze the formation of gluconic acid and hydrogen peroxide from the oxidation of glucose. A second enzyme, peroxidase, catalyzes the reaction of hydrogen peroxide with a chromogen...

...of glucose.

Glucose oxidase is a specific indicator for the presence of glucose; however, glucose oxidation is inhibited by ascorbic acid and ketone levels higher than 40 mg/dL, creating false...

...sugar.

False-positive reactions may be produced by residues of bromides, copper, iodides, and other oxidizing cleaning agents in the urine container. Test strips must be kept dry and free of...

...ketones are useful for diagnosing and monitoring diabetic ketoacidosis, alcoholic ketosis, and other diseases of carbohydrate and lipid metabolism. |16-19

These tests fail to measure |Beta
-hydroxybutyric acid, the major...

...21

The dipstick contains organic peroxide, which reacts with hemoglobin and myoglobin to catalyze the oxidation of the indicator.

Intact erythrocytes will hemolyze on the test paper of the dipstick and...

...mg/dL delay the reaction.

False-positive reactions may be seen in the presence of oxidizing cleaning agents. Urine obtained during menstruation may also yield a positive result. Also, urine from...negative result, specimens should not be collected in containers that have been cleaned with strong oxidizing agents.

Cephalexin, gentamicin, and albumin concentrations greater than 500 mg/dL have been reported to...

34/3,K/30 (Item 9 from file: 149) Links
TGG Health&Wellness DB(SM)

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01371215 Supplier Number: 12900234 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Skin constituents as cosmetics ingredients.

Rieger, Martin

Cosmetics and Toiletries , v107 , n11 , p85(9)

Nov ,

1992

Publication Format: Magazine/Journal

ISSN: 0361-4387

Language: English

Record Type: Fulltext Target Audience: Trade

Word Count: 6946 Line Count: 00597

...in which it was produced in by the sebaceous gland. It is subject to air oxidation and the action of endogenous and exogenous (microbial) lipolytic enzymes. The liquids excreted by the...This is much easier to achieve in vitro by exposing a cell culture to the agent of choice. Whether the same target in a cell can be reached in vivo should...precursor of sterols, including ergosterol. The conversion of squalene to these critically important substances requires oxidation (by squalene per-oxidase), cyclization and demethylation. Squalene, which contains six (trans) double bonds, and...

...about 10% of these acids in ceramides are monounsaturated. The terminal methyl group may be oxidized and esterified with linoleic acid. Some of the structural details of ceramide-related materials are...be part of the components found among the water solubles in skin. This includes the cations [Na.sup.+] and [K.sup.+], and the anions [HCO.sup.-.sub.3] and [Cl.sup.+] acid sequence in proteins exhibits a high degree of interspecies conservation. This applies also to carbohydrate -modified proteins, such as the proteoglycans. As the human genome studies continue, in-vitro synthesis...keratinocytes in normal skin.

Glycoproteins: Glycoproteins are proteins which carry covalently bound, relatively short oligomeric carbohydrate molecules. The best known of these is fibronectin. It is found in the extracellular matrix...

...35 183-195 (1984) [16.] K Laden and R Spitzer, Identification of a natural moisturizing agent in skin, J Soc Cosm Chem 18 351-360 (1967) [17.] G Pascher, Cis- und...

34/3,K/31 (Item 10 from file: 149) Links

TGG Health&wellness DB(SM)

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01313803 Supplier Number: 11666490 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Drug-nutrient interactions.

Trovato, Aldo; Nuhlicek, Dale N.; Midtling, John E.

American Family Physician , v44 , n5 , p1651(8)

Nov ,

1991

Publication Format: Magazine/Journal

ISSN: 0002-838X

Language: English

Record Type: Fulltext; Abstract Target Audience: Professional

Word Count: 2661 Line Count: 00296

Abstract: ...including acetaminophen, amoxicillin and other antibiotics, antihypertensive medications, and many others. The effects of high- carbohydrate and high-protein diets on various medications are discussed. Common foods can cause a hypertensive...

...or secondary. Primary drug-induced malabsorption is due to the direct effects of the pharmacologic agent on the intestinal mucosa or on the intraluminal processes. Secondary drug-induced malabsorption is due... the nutrient unavailable for absorption. The most common interactions involve tetracycline and divalent and trivalent cations, which are present in milk, dairy products, iron preparations and antacids. These products should be...

...extraction. Food can increase absorption of these drugs by decreasing first-pass metabolism. [17] High-carbohydrate meals can decrease gastric emptying time, leading to increased absorption of hydrochlorothiazide (Esidrix, HydroDIURIL, Oretic...

...DRUG METABOLISM

Drugs are metabolized by two basic reactions. The phase I reaction involves an oxidation, hydroxylation, reduction or hydrolysis reaction, which changes a functional molecular group on the drug. The...

...16,18] Most of the effects of diet on drug metabolism involve the phase I oxidation reaction.

The typical recommended diet for healthy Americans contains 50 to 60 percent of calories as carbohydrate and 0.8 g of protein per kg of body weight per day. High-carbohydrate and low-protein diets (60 percent of calories as carbohydrate, 0.6 or less of protein per kg of body weight per day) decrease the metabolism of certain drugs such as theophylline. On the other hand, low-carbohydrate and high-protein diets (40 percent of calories as carbohydrate 1.5 g of protein per kg of body weight per day) increase the levels...

...in moderation. The dietary restrictions should be maintained for two weeks following discontinuation of the agent. [20]

DRUG ANTAGONISTS

Natural licorice or licorice extracts containing glycyrrhizic acid can complicate hypertension and...with alcohol is the disulfiram-like reaction. Drugs that inhibit the enzyme acetaldehyde dehydrogenase, which oxidizes acetaldehyde and the associated nausea and vomiting within minutes of alcohol ingestion. The possibility of...

...Patients receiving oral hypoglycemics may need to avoid alcohol because acute alcohol ingestion can alter carbohydrate metabolism, leading to hypoglycemia. [24] Chronic alcohol use can cause increased hepatic metabolism of sulfonylureas...

...307.

[19] Kappas A, Anderson KE, Conney AH, Alvares AP. Influence of dietary protein and carbohydrate on antipyrine and theophylline metabolism in man. Clin Pharmacol Ther 1976;20:643-53.

[20...

34/3,K/32 (Item 11 from file: 149) Links

TGG Health&Wellness DB(SM)

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01185813 Supplier Number: 07609829 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Metabolic acidosis with an elevated anion gap.

Hertford, Jo Ann Fiorito; McKenna, James P.; Chamovitz, Bruce N.

American Family Physician , v39 , n4 , p159(10)

April ,

1989

Publication Format: Magazine/Journal

ISSN: 0002-838X

Language: English

Record Type: Fulltext Target Audience: Professional

Word Count: 3372 Line Count: 00425

...Anion Gap and Osmolal Gap

Anion gap is defined as the difference between measured serum cations and anions. An elevated anion gap reflects an increase in "unmeasured" anions--usually organic acids...

...may cause a mildly elevated anion gap due to ketosis from lipolysis and increased Beta-oxidation of free fatty acids in the liver.(8)

Treatment is proper dietary modification.

POISONING

Methanol...result in respiratory acidosis. At a later stage of poisoning, a direct toxic effect on carbohydrate metabolism produces the classic high anion gap metabolic acidosis.(14)

The Done nomogram, which is...

...than 100 mg per dL [145 mmol per L]), hemodialysis is indicated.(14)

Paraldehyde. This agent is used as a sedative and an antiseizure medication. The average minimal lethal blood level...

34/3,K/33 (Item 12 from file: 149) Links

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01099266

Supplier Number: 04163484 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Gordon Research Conferences. (Summer, 1986)

Cruickshank, Alexander M.

Science , v231 , p1163(37)

March 7 ,

1986

Publication Format: Magazine/Journal

ISSN: 0036-8075

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 28553 Line Count: 03203

...use as a test reaction."

26 June. G. B. Fisher, "The mechanisms of the CO oxidation and NO reduction reactions on single crystal and supported rhodium at low and high pressures...

...P-glycoprotein"; Francis Sirotnak, "Interaction of lipophilic drugs with tumor cells." Novel concepts of alkylating agent pharmacology (Kenneth D. Tew, discussion leader): J. William Lown, "Molecular recognition in the design of...Noble, "Mathematical modeling of facilitated transport in liquid membranes"; Reed M. Izatt, "Carrier-mediated cation transport in liquid membrane systems."

Chemistry at Interfaces

Kimball Union Academy

Adrian Parsegian, chairman; Lloyd Abrams...School

Edward H. Nicollian, chairman; Edward H. Poindexter, vice chairman.

14 July. The thermal oxidation of silicon (Joseph Maserjian, discussion leader): Eugene Irene, "Low-temperature thin-film oxidation";

J. P. Krusins, "Rapid thermal oxidation"; W. A. Tiller,

"Photoenhanced oxidation." (J. Wortman, discussion leader): David

Baglee, "Growth and characterization of thin SiO₂"; A. Reisman, "The oxidation kinetics of silicon."

15 July. Paramagnetic defects in MOS systems (Edward H. Poindexter,

discussion leader): Arthur...

...Schoolnik, "Identification of E. coli ST receptor with synthetic toxin analogues"; J. Edward Brown, "Carbohydrate receptor for Shiga and Shiga-like toxin." Bacterial pili and attachment (Staffan Normark, discussion leader): Paul...P. Curran, "Recent advances in organic synthesis via free radical reactions." John Swenton, "Anodic oxidation chemistry in organic synthesis."

15 July. A. I. Meyers, "Asymmetric C--C bond forming reactions"; Art ...of mixed copper/iron clusters"; J. W. Faller, "Selectivity and the reactivity of higher oxidation state organometallics"; J. Schwartz, "New chemistry of oxide-bound organometallic complexes."

Participants desiring to display a...School

Alley E. Watada, chairman; William J. Bramlage, vice chairman.

7 July. Cell wall carbohydrate metabolism during fruit maturation and ripening (D. Nevins, chairman): K. Gross, "Fruit cell wall compositional changes...

...on neuropeptides"; E. Stadtman, I. Rose, "Cytoplasmic protein degradation with substrates targeted by oxidation or ubiquitination

Posters encouraged.

Pulmonary Biology: Lung Inflammation

Colby-Sawyer College (S)

P. Henson, chairman; B. Smith...16 June. (Gerhard L. Closs, discussion leader): Heinz D. Roth, "New organic radical cations--homoconjugation, homoaromaticity, and unusual energy surfaces"; Leo Radom, "Distonic radical cations: Structures, stabilities, and unimolecular reactions"; Nathan L. Bauld, "New developments in cation radical cycloadditions." (Paul D. Bartlett, discussion leader): Stephen F. Nelsen, "Tetraalkylolefin, diene, and triene cation radical chain reactions"; Paul G. Gassman, "Cation radicals from photoinduced electron transfer reactions."

17 June. (Lord John M. Tedder, discussion leader): Michael L. Gross, "Reactions of gas-phase aromatic radical cations with olefins, dienes, and alkyl iodides: New routes to alkyl benzenes and indans"; Richard N. McDonald, "The...

...Radical ions in halogenated matrices: Structure and reactions"; Alexander D. Trifunac, "Transient radical cations in hydrocarbons"; Larry Kevan, "Photoionization in micellar and vesicular frozen solutions." (Kevin Peters, discussion leader): Noboru Mataga...John Newsam, "Progress in the structural characterization of zeolites"; Peter Davies, "Effects of cation ordering on the behavior of crystalline fast ionic conductors." (Gerald Mahan, discussion leader): Klaus Funke, "Debye-Huckel ...D.

15 August. Ions and molecular beams: Richard Saykally, "Vibrational spectroscopy of molecular cations, anions, and Van der Waal's bonds"; Rick Smalley, "Molecular beam spectroscopy of clusters."

Conferees are invited...

34/3,K/34 (Item 13 from file: 149) Links

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01057468 Supplier Number: 02665462 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Gordon Research Conferences. (includes schedules) (calendar)

Science , v219 , p1095(35)

March 4 ,

1983

Document Type: calendar Publication Format: Magazine/Journal

ISSN: 0036-8075

Language: English

Record Type: Fulltext Target Audience: Academic

Word Count: 26464 Line Count: 03173

...immunoglobulins.'

28 June. (P. A. Sandford, discussion leader): D. A. Brant, "Realistic molecular modeling of polysaccharide solution conformation"; G. O. Aspinall, "Selective fragmentations of polysaccharides." (D. H. Ball, discussion leader): K...

...transport of lysosomal enzymes.'

1 July. (L. Anderson, discussion leader): Y. Ishido, "Novel aspects in carbohydrate chemistry: Regioselective protection and glycosylation reactions"; P. Sinay, "The chemical synthesis of heparin oligosaccharide fragments...in human AML"; Saul Zimm, "Pharmacokinetics of 6-mercaptopurine: A new look at an old agent.'

Chronobiology

Colby-Sawyer College (S)

Charles F. Ehret, chairperson; Jerry Feldman, vice chairperson.

Circadian Regulation...Graham, "Oxygen diffusion studies in growing films using the 18O isotope and sims.'

26 July. Oxidation of alloys: G. Yurek, "Oxidation of rapidly solidified alloys"; M. Bennet, "Effects of ion implantation on oxidation of alloys." Growth of alumina scales: D. J. Field, "Mechanisms of oxidation of aluminum and aluminum alloys"; R. A. Ramanarayanan, "Al₂O₃-scales on Fe-base ODS alloys...Les Dutton, "Electrogenic reactions in the bcl complex." (Angelo Azzi, poster discussion leader).

16 August. Cation translocating ATPases: (A) Structure and function (Ernesto Carafoli, session chairperson): Ernesto Carafoli, "Introduction and over-view --comparative aspects of cation motive ATPases"; Robert Fillingame, "The H⁺-ATPase of Escherichia coli"; Andre Goffeau, "The H⁺-ATPase of fungal plasma membranes." (John Walker, poster discussion leader). Cation translocating ATPases: (B) How do they couple ATP hydrolysis to cation transport? (R. Brian Beechey, session chairperson): R. Brian Beechey, "Introduction and overview"; William Jencks, "Coupling...mediated

6 July. C. Thorpe, "Flavoproteins in

6 July. C. Thorpe, "Flavoproteins in fatty acid oxidation: Recent developments"; J. Knowles, "Problems in the Shikimate pathway"; S. Benkovic. (C. Walsh, session chairperson...cell production'; G. Stewart, "Genetics in baking, brewing and wine making-- yeast as a cloning agent.'

10 August. Implications of genetic engineering (D. Linebeck, session chairperson): R. W. Hardy, "Implications to...

...A. Porter, discussion leader): E. G. Janzen, "Applications of spin trapping in micelles"; T. Mill, "Oxidation chemistry of vitamin E and other phenols in bilayers and solution." J. M. McBride, "Single...

...in free radical and carbene chemistry'; J. J. Kurland, "A kinetic-mechanistic model of butane oxidation.'

Fuel Science

New Hampton School

Leon M. Stock, chairperson; Randall E. Winans, vice chairperson.

4...function in the N-linked oligosaccharides'; I. A. Wilson, "The structure and role of the carbohydrate moieties of influenza virus hemagglutinin"; Hans Vliegthart, "High resolution proton NMR studies on the Oglycosidic carbohydrate chains of glycoproteins." Metabolic control of dolichol pyrophosphate oligosaccharide synthesis and factors controlling distribution of...H. Bock, "Optimization of (heterogeneously catalyzed) gas reactions using photoelectron spectroscopy"; C. A. Tolman, "Hydrocarbon oxidation by transition metal complexes"; T. J.

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Collins, "Perspectives in the development of selective oxidizing agents"; A. Sen, "Role of transition metal alkyls and acyls in the catalytic carbonylation of...

...Evans, "Reactivity of organolanthanide hydrides"; R. A. Andersen, "Bis(pentamethylcyclopentadienyl)ytterbium as an electron transfer agent toward organic, inorganic, and organometallic compounds"; J. L. Atwood, "Structural aspects of organolanthanide reactivity. Organometallic...21 July. Ion exchange properties of clay minerals (Adrian Cremers, session chairperson): Garrison Sposito, "Ternary cation exchange in clay minerals"; Oscar Talibudeen, "Calorimetry of ion exchange reactions of the phyllosilicates in...L. Liebert, "Ferroemetics--stable suspensions of magnetic grains in a nematic phase"; G. A. Jeffrey, "Carbohydrate liquid crystals." R. Oldenbourg, "Light scattering studies of the liquid crystalline phase in virus solutions...biosynthesis." Function of membrane lipids and proteins in cellular development: Ronald Schnaar, "Immobilized glycolipids support carbohydrate-specific cell adhesion"; William Lennarz, "Glycoprotein synthesis and embryonic development"; Lucy Shapiro, "Role of membrane...A. Paul Schaap, discussion leader): Donald R. Arnold, "Radical ions in photochemistry"; Anthony Ledwith, "Radical cations in photochemically induced polymerization and cyclodimerization." (Jack Saltiel, discussion leader): Marye Anne Fox, "Mechanistic aspects...Yoon, "Nematic order of semiflexible polymers." Natural polymers (F. E. Bailey, session chairperson): R. Marchessault, "Carbohydrate polymers: Nature's high performance materials." 8 July. Polymer degradation (H. J. Langer, session chairperson...

...and function I (John Rupley, session chairperson): John Moulton, "Water around proteins"; Don Wiley, "Bound carbohydrate"; Gerard de Haas, "Lipid interactions." The protein surface and function II (Joseph Kraut, session chairperson...

...Merck macromolecular graphics and the mechanism of thermolysin"; Michael Liebman, "Design of colchicine-like antitumor agent." 29 July. Lipophilicity and drug action (Manfred Wolff, session chairperson): Robert Pearlman, "Chymotrypsin inhibitors: Theoretical... applications of RO technology (J. K. Beasley, discussion leader): E. Klein, "Membranes for protein and carbohydrate separations: Theory and problems"; E. F. Casassa, "Statistics of confined polymer chains"; P. Blais, "From...of molecular ions in rare gas solids"; Lon Knight, "Techniques for the trapping of molecular cation radicals in neon matrices at 4 K for ESR investigation." Tadamasu Shida, "High energy radiation...

34/3,K/35 (Item 1 from file: 444) Links
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New England Journal of Medicine
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00106480
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Recent Developments In The Understanding Of The Pathogenesis And Treatment Of Anaerobic Infections (first of Two Parts) (Medical Progress)

Styrt, Barbara; Gorbach, Sherwood L.
The New England Journal of Medicine
Jul 27, 1989; 321 (4), pp 240-246
Line Count: 00371 Word Count: 05126

Text:

...host cells as the first step in invasion (Ref. 25,26). The formation of a
Page 153

search.txt

polysaccharide capsule may be a virulence factor in bacteroides (Ref. 27-32) and gram-positive anaerobes...with aerobes and anaerobes may help perpetuate the combination (Ref. 78). The lowering of the oxidation-reduction potential of the microenvironment by facultative organisms creates more favorable conditions for the growth...

Cited References

- ...to bovine ruminal cells. J Med Microbiol 1987; 23:69-73.
27. Kasper DL. The polysaccharide capsule of Bacteroides fragilis subspecies fragilis: immunochemical and morphologic definition. J Infect Dis 1976; 133:79-87.
28. Onderdonk AB, Kasper DL, Cisneros RL, Bartlett JG. The capsular polysaccharide of Bacteroides fragilis as a virulence factor: comparison of the pathogenic potential of encapsulated and... ..DL, Longgren J. Virulence factors in infections with bacteroides fragilis: isolation and characterization of capsular polysaccharide and lipopolysaccharide. Scand J Infect Dis Suppl] 1982; 35:45-52.
32. Brook I, Walker...1984; 6:Suppl 1:S34-S39.
44. Hawley CE, Falkler WA Jr. The effect of divalent cation chelators and magnesium on activation of the alternative complement pathway by Fusobacterium polymorphum (nucleatum). J...management of bacterial diarrhea. Rev Infect Dis 1983; 5:246-57.
98. George WL. Antimicrobial agent -associated colitis and diarrhea: historical background and clinical aspects. Rev Infect Dis 1984; 6:Suppl...

34/3,K/36 (Item 1 from file: 354) Links

Fulltext available through: USPTO Full Text Retrieval Options

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800974 EnCompassLit Document No.: 200606003

Oxidation of benzaldehyde to benzoic acid

Author: Yan H.; Liu C.; Luo G.

Corporate Source: Department of Chemistry, Liaoning University of Petroleum and Chemical Technology

Source: Petroleum Science and Technology 23/11-12 1511-1516 (ISSN 1091--6466) (November 2005)

Language: English

ISSN: 1091--6466

CODEN: PSTEF

Journal Name: Petroleum Science and Technology

Document Type: JOURNAL ARTICLE

DOI: 10.1081/LFT-200041057

Publication Date: 051100

Oxidation of benzaldehyde to benzoic acid

Abstract:

Benzaldehyde was oxidized to benzoic acid using Na(sub)2WO(sub)4.2H(sub)2O as a catalyst... ..The yield of cation surfactant was higher than that of anion ones ...

Assigned Terms: ...ATE; BENZALDEHYDE-A; *BENZOIC ACID-*P; *CATALYST; CATION; CONCENTRATION; HYDROGEN PEROXIDE-A; NONIONIC; *OXIDATION REACTION; OXYGEN; POLYSACCHARIDE; REACTION TIME; SODIUM; SURFACE ACTIVE AGENT; TUNGSTEN; WATER; YIELD
Index Terms: ...RING-A*P; *BENZOIC ACID-*P; *C7-A*P; CARBOHYDRATE; *CATALYST; CATION; COMPOSITION; CONCENTRATION; GROUP IA; GROUP VIA-NA... ..ION; *MONOCARBOXYLIC ACID-*P; NONIONIC; OPERATING CONDITION; * OXIDATION REACTION; OXYGEN-NA; PHYSICAL PROPERTY; POLYSACCHARIDE; REACTION TIME; *SINGLE STRUCTURE TYPE-A*P; SODIUM; SURFACE ACTIVE AGENT; TRANSITION METAL; TUNGSTEN; WATER; YIELD

34/3,K/37 (Item 2 from file: 354) Links

Fulltext available through: ScienceDirect

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0508816 EnCompassLit Document No.: 40F0590

Scleroglucan gels for profile modification in high-temperature reservoirs

Author: Fielde I; Stavland A
Corporate Source: Rogaland Research Institute
Source: SPE 1993 International Oilfield Chemistry Symposium (New Orleans 3/2-5/93)
Proceedings 695-707 (1993)
Language: English
Document Type: MEETING PAPER
Publication Date: 930302

Abstract:

...Cr(sub)2O(sub)7(sup)2(sup)-, it was found that dichromate has to oxidize alcohol groups on the scleroglucan molecule to carboxyl groups before Cr(sup)3(sup)+ gelation...

Assigned Terms: AIME; ATE; CATION; CHROMIUM; COMPOUNDS; CROSSLINKED POLYMER; CROSSLINKING; *CROSSLINKING AGENT; GEL; GELATION; HIGH TEMPERATURE; MEETING PAPER; MELAMINE RESIN; *MOBILITY CONTROL; OIL RESERVOIR; OXIDATION REACTION; OXYGEN; *SCLEROGLUCAN; THERMAL STABILITY; *THICKENER

Index Terms: *ADDITIVE; AIME; ASSOCIATION; ATE; CATION; CHROMIUM; COLLOID/DISPERSION; COMPOUNDS; CROSSLINKED POLYMER; CROSSLINKING; *CROSSLINKING AGENT; GEL; GELATION; GROUP VIA; GROUP VIB... ..RESIN; *MOBILITY CONTROL; OIL RESERVOIR; OPERATING CONDITION; OXIDATION REACTION; OXYGEN; PHASE CHANGE; PHYSICAL PROPERTY; POLYMER STRUCTURE; *POLYSACCHARIDE; *SCLEROGLUCAN; SOLIDIFICATION; STABILITY ; SYNTHETIC RESIN...

34/3,K/38 (Item 3 from file: 354) Links

Fulltext available through: ScienceDirect

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0506072 EnCompassLit Document No.: 4000852

Catalytic oxidation of benzene to catechol with hydrogen peroxide by Fe(III) complex of gallic acid bonded to immobilized (BETA)-cyclodextrin

Author: Sakuraba H
Corporate Source: Kanto Gakuin University
Source: Nippon Kagaku Kaishi (ISSN 0369-4577) N.12 1463-69 (1992)
Language: Japanese
ISSN: 0369-4577
CODEN: NKAKB8

Journal Name: Nippon Kagaku Kaishi

Document Type: JOURNAL ARTICLE

Publication Date: 920000

Catalytic oxidation of benzene to catechol with hydrogen peroxide by Fe(III) complex of gallic acid bonded...

Abstract:

Catalytic oxidation of benzene to catechol with hydrogen peroxide by Fe(III) complex of gallic acid bonded...

Assigned Terms: ...BENZENE-*A; BENZENE RING; BIOPOLYMER; C7; CARBOHYDRATE; *CATALYST ; CATALYST ACTIVITY; CATALYST SUPPORT; CATION; COMPLEX; COMPLEX FORMATION; CROSSLINKED POLYMER; CROSSLINKING AGENT; DETERIORATION; EFFICIENCY; ELEMENT; ESTERIFICATION; FLUORINE... ..NITROGEN; NONE; NONHYDROCARBON SOLVENT; ORGANIC SALT; OXIDATION REACTION; PH; *PHENOL-*P; PHYSICAL SEPARATION; POLYSACCHARIDE; POTASSIUM; *PYROCATECHOL-*P; *RESORCINOL-*P; TEMPERATURE 20...

Index Terms: ...BIOPOLYMER; C3; *C6-*A*P; C7; CARBOHYDRATE; CARBOXAMIDE; *CATALYST; CATALYST ACTIVITY; CATALYST SUPPORT; CATION; CHLORINE ORGANIC; COMPLEX; COMPLEX FORMATION; CROSSLINKED POLYMER; CROSSLINKING AGENT; DETERIORATION; EFFICIENCY; ELEMENT; EPOXY; ESTERIFICATION... ..SOLVENT; OPERATING CONDITION; ORGANIC SALT; ORGANIC SOLVENT; OXIDATION REACTION; OXYGEN-A; PH; *PHENOL-*P; PHYSICAL PROPERTY; PHYSICAL SEPARATION; POLYMER STRUCTURE; POLYSACCHARIDE; POTASSIUM; *PYROCATECHOL-*P; *RESORCINOL-*P; SATURATED CHAIN

34/3,K/39 (Item 4 from file: 354) Links

Fulltext available through: ScienceDirect

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0394479 EnCompassLit Document No.: 35F0179

DOWNHOLE USE OF BIOPOLYMERS

Author: SUTHERLAND I W; KIERULF C

Corporate Source: UNIV. EDINB.

Source: INST. PET. LOND., "MICROBIAL PROBL. OFFSHORE OIL IND." INT. CONF. (ABERDEEN 4/15-17/86) PROC. 93-103 (1987)

Language: English

Document Type: MEETING PAPER; REVIEW

Publication Date: 860415

Index Terms: ...BIOCHEMICAL REACTION; BIODEGRADATION; *BIOPOLYMER; BIOSYNTHESIS; CATION; *CAUSTIC WATERFLOODING; CHROMIUM; COMMERCIAL; COMPATIBILITY; COMPOUNDS; CROSSLINKED POLYMER; CROSSLINKING; CROSSLINKING AGENT; DEPOLYMERIZATION; DETERIORATION; DRILLING FLUID; EFFICIENCY... ..IP; MEETING PAPER; MIXING; NATURAL RESIN; OXIDATION INHIBITOR; OXIDATION REACTION; OXYGEN; PERMEABILITY; PHYSICAL PROPERTY; PLUGGING AGENT; POLYMER STRUCTURE; *POLYMER WATERFLOODING; POLYSACCHARIDE; PSEUDOPLASTIC FLUID; *RECOVERY; REVIEW; SHEAR...

? d s

Set	Items	Description
S1	210	S E16-E17
S2	9	S S1 AND TRACHOMATIS
S3	7	RD (unique items)
S4	69635	S TRACHOMATIS
S5	42349	S (ELEMENTARY(W)BODIES AND RETICULATE(W)BODIES) OR (EBS OR RBS)
S6	57190	S SEROVAR OR SEROVAR
S7	332	S S4 AND S5 AND S6
S8	5	S (ADMINIST? OR INTRA) AND S7
S9	4	RD (unique items)
S10	5	S S4 AND S6 AND S8
S11	4	RD (unique items)
S12	4477	S S4 AND S6
S13	5	S S12 AND S8
S14	1053533	S POLYSACCHARIDE OR SACCHARIDE OR CARBOHYDRATE
S15	2930093	S OXIDATION OR OXIDIZING OR OXIDIZ?
S16	40899	S S14 AND S15
S17	1085866	S CATION OR CATIONS OR BIVALENT(W)CATIONS OR DIVALENT(W)CATION OR VALENT(W)CATIONS OR VALENT NEAR CATION OR MAGNESIUM(W)CATIONS OR CATION(W)MG
S18	474	S S17 AND S16
S19	19	S S18 AND CONJUGATE
S20	12	RD (unique items)
S21	272	S S16 AND MAGNESIUM
S22	208	RD (unique items)
S23	17	S S21 AND CATIONS
S24	16	RD (unique items)
S25	466	S S16 AND (CALICIUM OR MAGNESIUM OR CATIONS OR BIVALENT(W)CATIONS)
S26	0	S S25 AND OXID\$
S27	466	S S25 AND (OXIDIZE OR OXIDATION OR OXIDIZ?)
S28	110	S S27 AND POLYSACCHARIDE
S29	14	S S27 AND PNEUMONIAE
S30	10	RD (unique items)
S31	110	S S28
S32	71	RD (unique items)
S33	48	S S18 AND AGENT
S34	39	RD (unique items)

? Please enter a command or be logged off in 5 minutes

? Logoff

Estimated Cost Summary

search.txt

Project
Client
Charge Code
Searcher
Job
Service Code
User Number

Nina Archie

51
294084
Date
Time
SessionID
Subsession
Subaccount
10/10/2007
21:03:27
133
3

Data Base
Dial Units
Access Charge
Print Credit
Types
Prints
Report
Rank
Links
CSS
Total
5
1.0850
6.51
0.00
34.50
0.00
0.00
0.00
0.00
0.00
0.00
41.01
6
0.2550
1.86
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
1.86
24
0.2610
1.62
0.00
0.00
0.00

0.00
0.00
0.00
0.00
1.62
34
1.0750
26.74
0.00
173.52
0.00
0.00
0.00
0.00
0.00
200.26
40
0.1620
1.16
0.00
0.00
0.00
0.00
0.00
0.00
0.00
1.16
41
0.1160
0.72
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.72
45
0.2680
1.34
0.00
4.00
0.00
0.00
0.00
0.00
0.00
5.34
50
0.4330
1.99
0.00
6.00
0.00
0.00
0.00
0.00
0.00
7.99
65
0.1620
0.66

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.66
71
0.3170
2.95
0.00
0.00
0.00
0.00
0.00
0.00
0.00
2.95
73
1.1210
13.34
0.00
36.30
0.00
0.00
0.00
0.00
0.00
49.64
98
0.1980
0.84
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.84
103
0.4370
2.75
0.00
8.60
0.00
0.00
0.00
0.00
0.00
11.35
136
0.1590
0.98
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.98

143
 0.1360
 0.41
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 0.00
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 0.00
 0.00
 0.00
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 144
 0.7770
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 5.40
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 9.25
 155
 1.0090
 3.43
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 1.76
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 0.00
 0.00
 0.00
 0.00
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 156
 0.4400
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 0.00
 0.00
 0.00
 3.59
 162
 0.2150
 0.97
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.97
 172
 0.1060
 1.26
 0.00
 0.00
 0.00
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0.00
0.00
1.26
305
0.1490
1.87
0.00
0.00
0.00
0.00
0.00
0.00
0.00
1.87
369
0.0930
0.32
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0.00
0.00
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0.00
0.00
0.00
0.00
0.32
370
0.0960
0.34
0.00
0.00
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0.00
0.00
0.00
0.34
393
0.2610
0.73
0.00
2.22
0.00
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0.00
0.00
0.00
0.00
2.95
399
1.3090
16.43
0.00
46.75
0.00
0.00
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0.00
0.00
0.00
63.18
434
0.2710
6.75
0.00
7.23

0.00
0.00
0.00
0.00
0.00
13.98
28
0.1260
0.78
0.00
0.00
0.00
0.00
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0.00
0.00
0.78
35
0.2880
1.18
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0.00
0.00
0.00
0.00
0.00
1.38
91
0.1390
0.60
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.60
110
0.1190
0.68
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0.00
0.00
0.00
0.68
135
0.1980
1.07
0.00
2.00
0.00
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0.00
0.00
0.00
3.07
164
0.0890

search.txt

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0.00
0.00
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0.00
0.00
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0.00
0.31
185
0.1590
0.98
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.98
357
0.2910
6.69
0.00
29.70
0.00
0.00
0.00
0.00
0.00
36.39
391
0.4700
0.00
0.00
7.00
0.00
0.00
0.00
0.00
0.00
7.00
467
0.0890
0.57
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.57
8
0.4200
3.95
0.00
0.48
0.00
0.00
0.00
0.00
0.00
0.00